SHARP SERVICE MANUAL

No. S8872CDC407W/

These new models CD-C407W,CP-C407 have almost the same structure as the former models CD-C401W,CP-C402 except for some outer parts, and so only these parts are here described. When servicing the CD-C407W,CP-C407, please refer to the already issued service manual for CD-C401W,CP-C402(S7751CDC401W/) as well as this service manual.

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

CD-C407W
CP-C407

CD-C407W and CP-C407 constitute CD-C407W.

DIFFERENCE BETWEEN CD-C401W AND CD-C407W

SECTION	CD-C401W	CD-C407W
Power consumption	80w	41w
Dimensions	Depth; 332.5 mm (13-1/8")	Depth; 13-3/4" (348 mm)
Weight	4.2 kg (9.2 lbs.)	4.3 kg (9.5 lbs.)

REF. NO.	PART NO. ★ CD-C401W		PART NO. ★ CD-C407W		DESCRIPTION	CODE
INTEGRATED CIRCUIT						
IC701	RH-iX0182AWZZ	J	RH-iX0217AWZZ	J	System Microcomputer, IX0217AW	AX
TRANSISTOR						
Q351	VSKTC3199GR-1	J	Not Used		Digital, NPN, KTC3199 GR	—
DIODES						
D4,5	VHD1SS119//-1	J	Not Used		Silicon, 1SS119	—
D203,204	VHD1SS119//-1	J	Not Used		Silicon, 1SS119	—
D331,332	VHD1SS119//-1	J	Not Used		Silicon, 1SS119	—
D602,603	VHD1SS119//-1	J	Not Used		Silicon, 1SS119	—
VD301,302	VHCKDV147C/-1	J	VHCSVC211C/-1	J	Silicon, SVC321C, Variable Cap	AG
VD331	VHCKV1236Z23F	J	Not Used		Variable Capacitance,KV1236Z23F	—
VD331A,B	Not Used		VHCSVC321C2-1	J	Silicon, SVC211C, Variable Cap	AG
ZD381	VHEUZ5R1BSB-1	J	VHEMTZJ5R1B-1	J	Zener, 5.1V, MTZJ5.1B	AC
ZD701	VHEUZ3R3BSB-1	J	VHEMTZJ3R3B-1	J	Zener, 3.3V, MTZJ3.3B	AA
VIBRATOR						
XL1	RCRM-0008AWZZ	J	92LCRSTL1746A	J	Ceramic, 16.93MHZ	
CAPACITORS						
C2	RC-GZA476AF1A	J	VCEAZA1EW476M	J	47 µF, 25V, Electrolytic	AB
C19	RC-GZA476AF1A	J	VCEAZA1EW476M	J	47 µF, 25V, Electrolytic	AB
C45	RC-GZA475AF1E	J	VCEAZA1HW475M	J	4.7 µF, 50V, Electrolytic	AB
C67,68	RC-GZA106AF1C	J	VCEAZA1HW106M	J	10 µF, 50V, Electrolytic	AB
C91	RC-GZA476AF1C	J	VCEAZA1EW476M	J	47 µF, 25V, Electrolytic	AB
C214,215	RC-GZA476AF1A	J	VCEAZA1EW476M	J	47 µF, 25V, Electrolytic	AB
C224	RC-GZA335AF1E	J	VCEAZA1HW335M	J	3.3 µF, 50V, Electrolytic	AB
C244	RC-GZA476AF1C	J	VCEAZA1EW476M	J	47 µF, 25V, Electrolytic	AB
C246	RC-GZA476AF1C	J	VCEAZA1EW476M	J	47 µF, 25V, Electrolytic	AB
C265	RC-GZA475AF1E	J	VCEAZA1HW475M	J	4.7 µF, 50V, Electrolytic	AB
C302	VCCUMN1HJ6R8D	J	VCCSMN1HL6R8K	J	6.8 pF, 50V	AA
C314	VCCUMN1HJ6R8D	J	VCCUMN1HJ4R7D	J	4.7 pF (UJ), 50V	AA
C323	VCCSMN1HL330J	J	VCCSMN1HL180J	J	18 pF, 50V	AA
C328	RC-GZA106AF1C	J	VCEAZA1HW106M	J	10 µF, 50V, Electrolytic	AB
C336	VCCUMN1HJ180J	J	VCCUMN1HJ220J	J	22 pF (UJ), 50V	AA
C344	VCCUMN1HJ8R2D	J	VCCUMN1HJ180J	J	18 pF (UJ), 50V	AA
C353	RC-GZA106AF1C	J	VCEAZA1HW106M	J	10 µF, 50V, Electrolytic	AB

★ MARK: SPARE PARTS-DELIVERY SECTION

CD-C407W,CP-C407

REF. NO.	PART NO. ★ CD-C401W		PART NO. ★ CD-C407W		DESCRIPTION	CODE
CAPACITORS						
C359,360	RC-GZA335AF1E	J	VCEAZA1HW335M	J	3.3 µF, 50V, Electrolytic	AB
C362	RC-GZA335AF1E	J	VCEAZA1HW335M	J	3.3 µF, 50V, Electrolytic	AB
C384	RC-GZA476AF1C	J	VCEAZA1EW476M	J	47 µF, 25V, Electrolytic	AB
C465~468	RC-GZA106AF1C	J	VCEAZA1HW106M	J	10 µF, 50V, Electrolytic	AB
C706	RC-GZA335AF1E	J	VCEAZA1HW335M	J	3.3 µF, 50V, Electrolytic	AB
C712	RC-GZA476AF1C	J	VCEAZA1EW476M	J	47 µF, 25V, Electrolytic	AB
C713	RC-GZA106AF1C	J	VCEAZA1HW106M	J	10 µF, 50V, Electrolytic	AB
C904,905	RC-QZA224AFYJ	J	VCFYHA1HA224J	J	0.22 µF, 50V, Thin Film	AC
C923	RC-QZ0026AWZZ	J	VCQYKA1HM473K	J	0.047 µF, 50V, Mylar	AB
C926,927	RC-GZA476AF1C	J	VCEAZA1EW476M	J	47 µF, 25V, Electrolytic	AB
RESISTORS						
R93	VRD-ST2EE4R7J	J	Not Used		4.7 ohms, 1/4W	—
R94	Not Used		VRD-ST2EE560J	J	56 ohms, 1/4W	AA
R355	VRD-MN2BD103J	J	Not Used		10 kohm, 1/8W	—
R356	VRD-MN2BD473J	J	Not Used		47 kohms, 1/8W	—
R391	VRD-ST2CD472J	J	VRD-ST2CD473J	J	47 kohms, 1/6W	AA
R398	VRD-ST2CD472J	J	Not Used		4.7 kohms, 1/6W	—
R709,710	VRD-MN2BD103J	J	Not Used		10 kohm, 1/8W	—
R713	VRD-MN2BD103J	J	Not Used		10 kohm, 1/8W	—
⚠R766	VRD-RT2HD100J	J	VRG-ST2EC100J	J	10 ohm, 1/4W, Fusible	AB
OTHER CIRCUITRY PARTS						
CNP902	QCNCM036EAWZZ	J	QCNCM042EAWZZ	J	Plug, 5Pin	AB
CNS201	QCNWN0919AWZZ	J	QCNWN0634AWZZ	J	Connector Ass'y, 3Pin	AK
CNS202	QCNWN0920AWZZ	J	QCNWN0635AWZZ	J	Connector Ass'y, 7Pin	AQ
SW4	QSW-F9001AWZZ	J	QSW-F9001AW01	J	Switch, Push Type [Pickup In]	AD
SW608	QSW-F0346AFZZ	J	92LM-SW1658A	J	Switch, Leaf Type [Tape 1 Play]	AB
SW701	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Power]	AD
SW702	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Volume Up]	AD
SW703	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Volume Down]	AD
SW704	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Play]	AD
SW705	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Fast Forward]	AD
SW706	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Rewind]	AD
SW707	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Open/Close]	AD
SW708	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Stop]	AD
SW709	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Disc Skip]	AD
SW710	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [X-BASS]	AD
SW711	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Function Selector]	AD
SW712	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Band Selector]	AD
SW713	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Clock/Timer]	AD
SW714	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Memory]	AD
SW715	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Tuning Up]	AD
SW716	QSW-K0181AFZZ	J	92LSWICH1401A	J	Switch, Key Type [Tuning Down]	AD
CABINET PARTS						
201	92LCAB2450AS1	J	92LCAB2792AS1	J	Front Panel Ass'y	AV
201-1	————————		————————		Front Panel (Not Replacement Item)	—
201-2	HDECQ0248AWSA	J	HDECQ0360AWSA	J	Panel, Display	AG
201-3	Not Used		GCōVA1204AWSA	J	Cover, Remote Sensor	AD
202	GiTAR0250AWSA	J	GiTAR0346AWSA	J	Back Board [Except for Thailand]	AH
202	GiTAR0251AWSA	J	GiTAR0347AWSA	J	Back Board [For Thailand]	AH
206	GCōVA1148AWSA	J	GCōVA1211AWSA	J	Cover, CD Tray	AH
209	JBTN-0106AWSA	J	JBTN-0117AWSA	J	Button, Record [Tape 1]	AD
210	JBTN-0104AWSA	J	JBTN-0118AWSA	J	Button, Play [Tape 1]	AD
211	JBTN-0107AWSA	J	JBTN-0119AWSA	J	Button, Rewing [Tape 1]	AD
212	JBTN-0103AWSA	J	JBTN-0120AWSA	J	Button, Fast Forward [Tape 1]	AD
213	JBTN-0108AWSA	J	JBTN-0121AWSA	J	Button, Stop [Tape 1]	AD
214	JBTN-0105AWSA	J	JBTN-0122AWSA	J	Button, Play [Tape 2]	AD
217	JBTN-0109AWSA	J	JBTN-0123AWSA	J	Button, Stop [Tape 2]	AD
227	PCUSG0027AWZZ	J	Not Used		Worm Wheel Cushion	—
236	MSPRC0021AWFJ	J	Not Used		Spring, Worm Wheel	—
248	92LMEC2448CTS1	J	92LCōV2790CTS1	J	Cassette Cover Ass'y, Tape1	AM
248-1	————————		————————		Cassette Cover,Tape1(Not Replacement Item)	—
248-2	HDECQ0206AWSA	J	HDECQ0352AWSA	J	Panel,Cassette,Tape1	AD

★ MARK: SPARE PARTS-DELIVERY SECTION

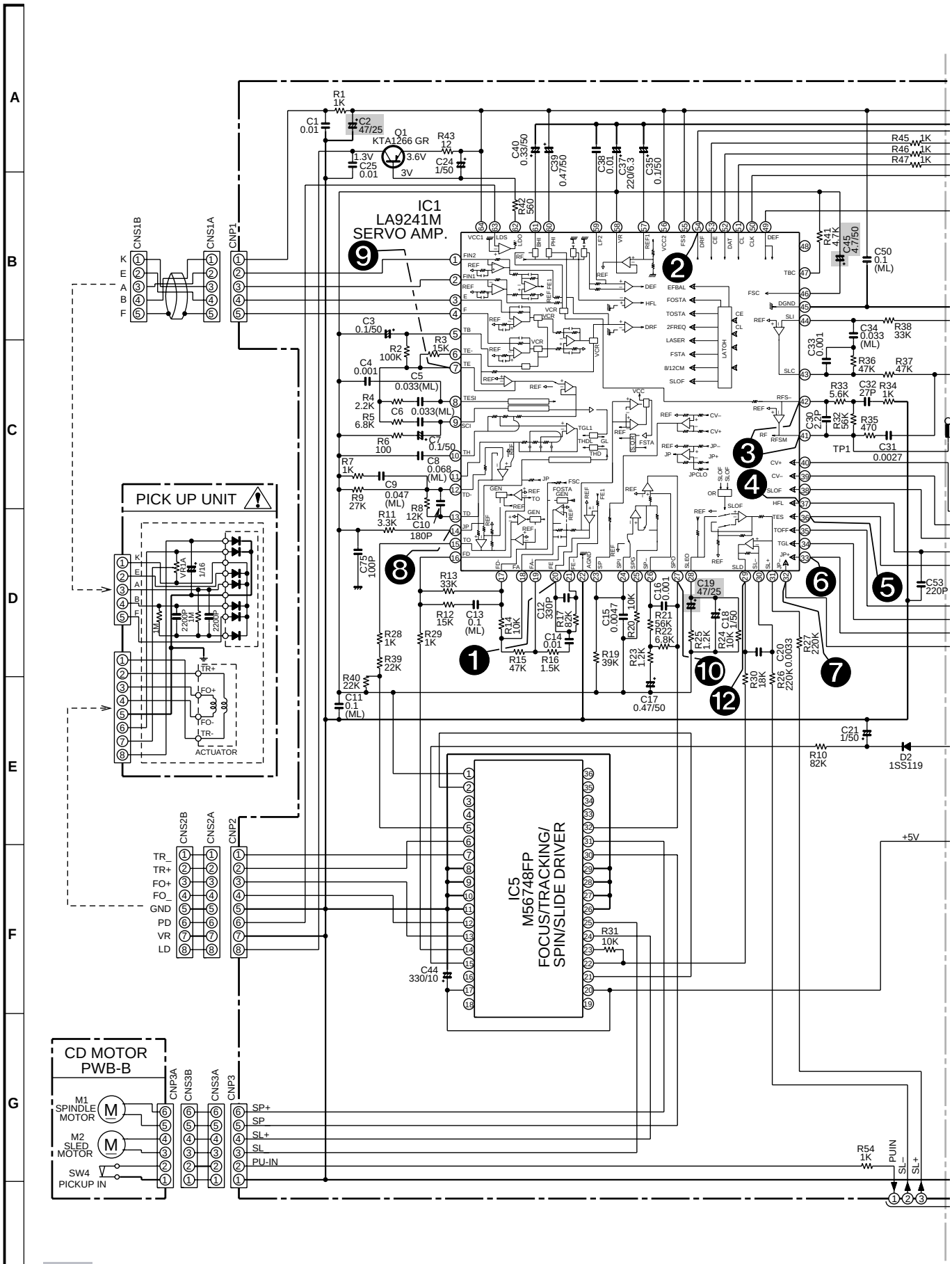
Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO.	PART NO. ★ CD-C401W		PART NO. ★ CD-C407W		DESCRIPTION	CODE
CABINET PARTS						
249	92LMEC2448CTS2	J	92LCōV2790CTS2	J	Cassette Cover Ass'y, Tape2	AM
249-1	————————		————————		Cassette Cover,Tape2(Not Replacement Item)	—
249-2	HDECQ0207AWSA	J	HDECQ0353AWSA	J	Panel,Cassette,Tape2	AD
251	HDECQ0208AWSA	J	JKNBZ0528AWSA	J	Knob, Stop	AF
252	JKNBZ0378AWSA	J	JKNBZ0527AWSA	J	Knob, Function	AG
253	JKNBZ0380AWSA	J	JKNBZ0524AWSA	J	Knob, Volume	AF
254	JKNBZ0381AWSA	J	JKNBZ0525AWSA	J	Knob, X-BASS	AE
255	JKNBZ0406AWSA	J	JKNBZ0536AWSA	J	Knob, Power	AG
258	TLABS0138AWZZ	J	TLABS0159AWZZ	J	Label, CPA	
259	TSPC-0464AWZZ	J	TSPC-0501AWZZ	J	Label, Specifications [For Thailand]	AD
259	TSPC-0469AWZZ	J	TSPC-0502AWZZ	J	Label, Specifications [For Taiwan]	AC
260	TCAUS0014AWZZ	J	TCAUS0040AWZZ	J	Label, Warning [For Taiwan]	AB
267	Not Used		XWHJZ62-09510	J	Washer, ø 6.2 x ø 10 x 0.9 mm	AB
268	Not Used		LANGF0032AWZZ	J	Support, T/T Lock Lever	AC
269	Not Used		GDōRF0060AWSA	J	Cassette Holder, Tape 1	AF
270	Not Used		GDōRF0061AWSA	J	Cassette Holder, Tape 2	AF
271	Not Used		QLUGP0001AWZZ	J	Lug	AC
272	Not Used		PSPAi0014AWZZ	J	Spacer, Power Transformer	AD
603	XEBSD30P12000	J	XEBSD30P16000	J	Screw, ø3 x 16 mm	AA
604	XJBSD30P08000	J	Not Used		Screw, ø3 x 8 mm	—
613	XJBSF30P10000	J	Not Used		Screw, ø3 x 10 mm	—
ACCESSORIES/PACKING PARTS						
	QACCB0004AW00	J	QACCB0002AW00	J	AC Power Supply Cord [For Hong Kong]	AY
	QACCE0007AW00	J	QACCE0005AW00	J	AC Power Supply Cord [Except for Australia/ New Zealand/Hong Kong]	AM
	SPAKA0135AWZZ1	J	SPAKA0196AWZZ	J	Packing Add., Left/Right	AN
	SPAKC0554AWZZ	J	SPAKC0659AWZZ	J	Packing Case	AQ
	TCAUA0012AWZZ	J	Not Used		Caution Label, Operation Manual [For Taiwan Only]	—
	TiNST0031AWZZ	J	TiNST0038AWZZ	J	Operation Manual [For Thailand]	AF
	TiNSZ0240AWZZ	J	TiNSZ0315AWZZ	J	Operation Manual [Except for Australia/ New Zealand/Thailand]	AK
	TiNSZ0241AWZZ	J	TiNSZ0316AWZZ	J	Operation Manual [For Australia/New Zealand]	AD
	Not Used		TLSTS0011AWZZ	J	S/S List	AB
	Not Used		TLABG0002AWZZ	J	Label, Hong Kong	AB
	Not Used		TLABH0047AWSA	J	Sheet, E/C Comparison A [For Taiwan Only]	AH
	Not Used		TLABH0048AWSA	J	Sheet, E/C Comparison B [For Taiwan Only]	AH
	Not Used		TLABH0049AWSA	J	Sheet, E/C Comparison C [For Taiwan Only]	AH
	Not Used		TGANZ0022AW10	J	Warranty Card [For Taiwan Only]	
	Not Used		TMAPC0114AWZZ	J	Schematic Diagram	AC
	Not Used		92LGCARD1266E1	J	Warranty Card [For Australia/New Zealand]	AC

DIFFERENCE BETWEEN CP-C402 AND CP-C407

SECTION	CP-C402	CP-C407
Type	10 cm (4") full range speaker	2-way type [4" (10 cm) woofer and super tweeter]
Dimensions	Width; 170 mm (6-11/16") Height; 280 mm (11") Depth; 151 mm (5-15/16")	Width; 6-11/16" (170 mm) Height; 11-1/16" (280 mm) Depth; 5-15/16" (151 mm)
Weight	1.4 kg (3.1 lbs.)/each	3.1 lbs. (1.4 kg)/each

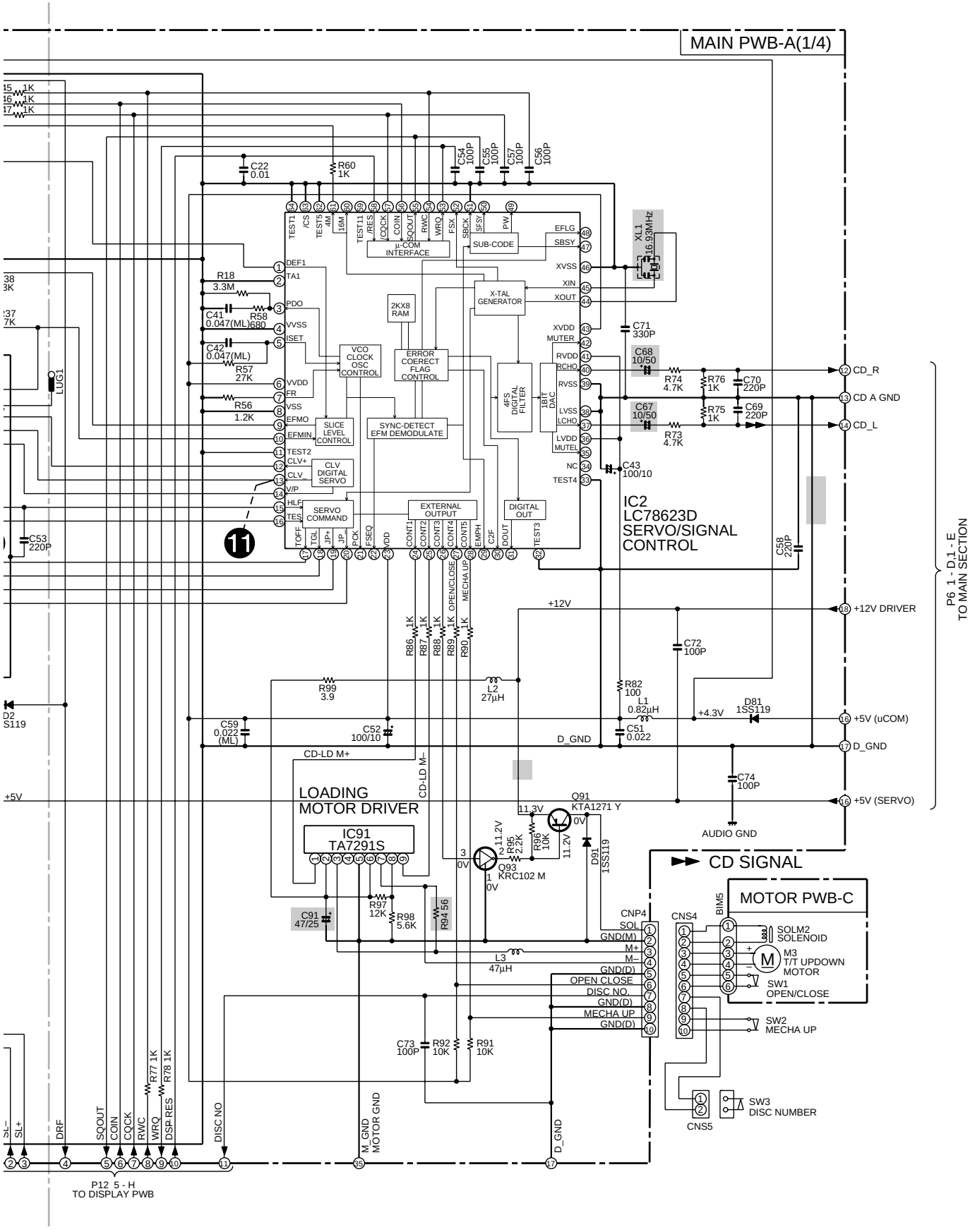
REF. NO.	PART NO. ★ CP-C402		PART NO. ★ CP-C407		DESCRIPTION	CODE
SPEAKER BOX PARTS						
701	92L121-0099	J	92L121-0151	J	Net Frame Ass'y	AU
702	92L051-0034	J	92L051-0064	J	Speaker Box Ass'y	AS
706	92L351-0170	J	92L351-0318	J	Label, Specifications	
SP3,4	Not Used		92L124-0016	J	Super Tweeter Ass'y	AK
ACCESSORIES/PACKING PARTS						
	92L412-0072	J	92L412-0121	J	Packing Add., Speaker (Top/Bottom)	
	92L353-0056	J	92L353-0080	J	Feature Label	



:Eliminated/Changed/Addition PARTS

• NOTES ON SCHEMATIC DIAGRAM can be found on page 12 (CD-C401W).

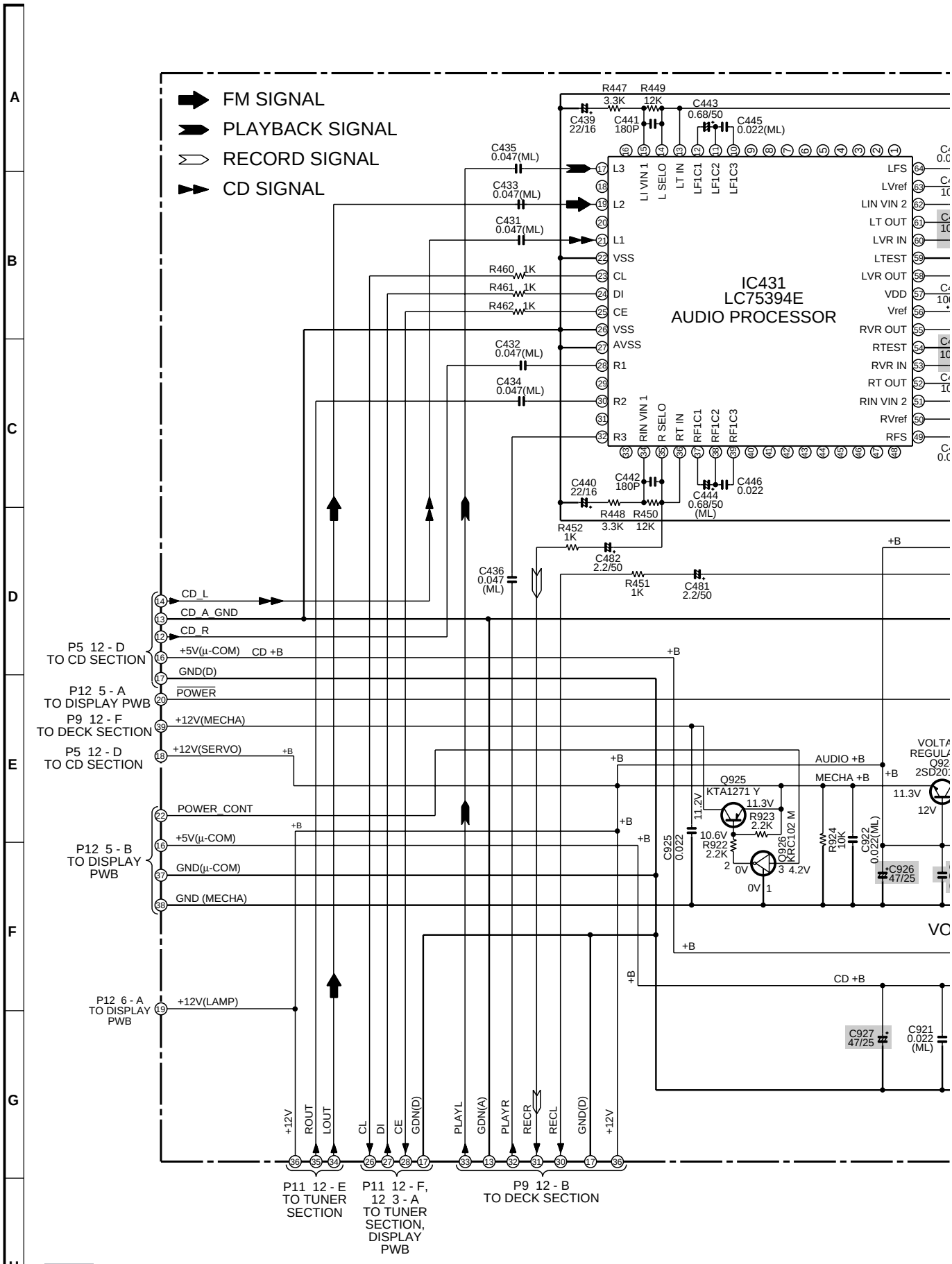
Figure 4 SCHEMATIC DIAGRAM (1/9)



• The numbers ❶ to ⓬ are waveform numbers shown in page 29 (CD-C401W).

7	8	9	10	11	12

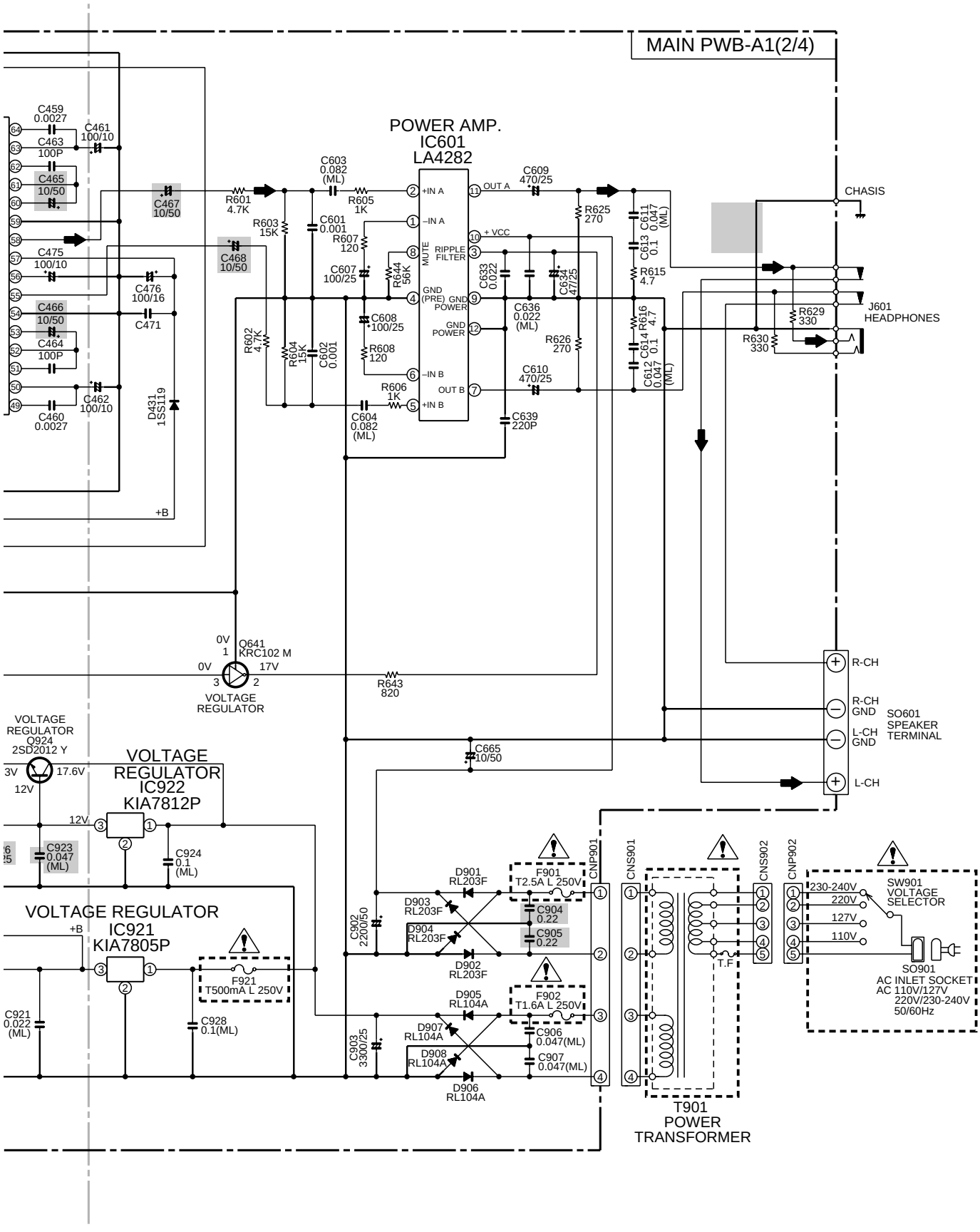
Figure 5 SCHEMATIC DIAGRAM (2/9)



:Eliminated/Changed/Addition PARTS

• NOTES ON SCHEMATIC DIAGRAM can be found on page 12 (CD-C401W).

Figure 6 SCHEMATIC DIAGRAM (3/9)



7	8	9	10	11	12

Figure 7 SCHEMATIC DIAGRAM (4/9)

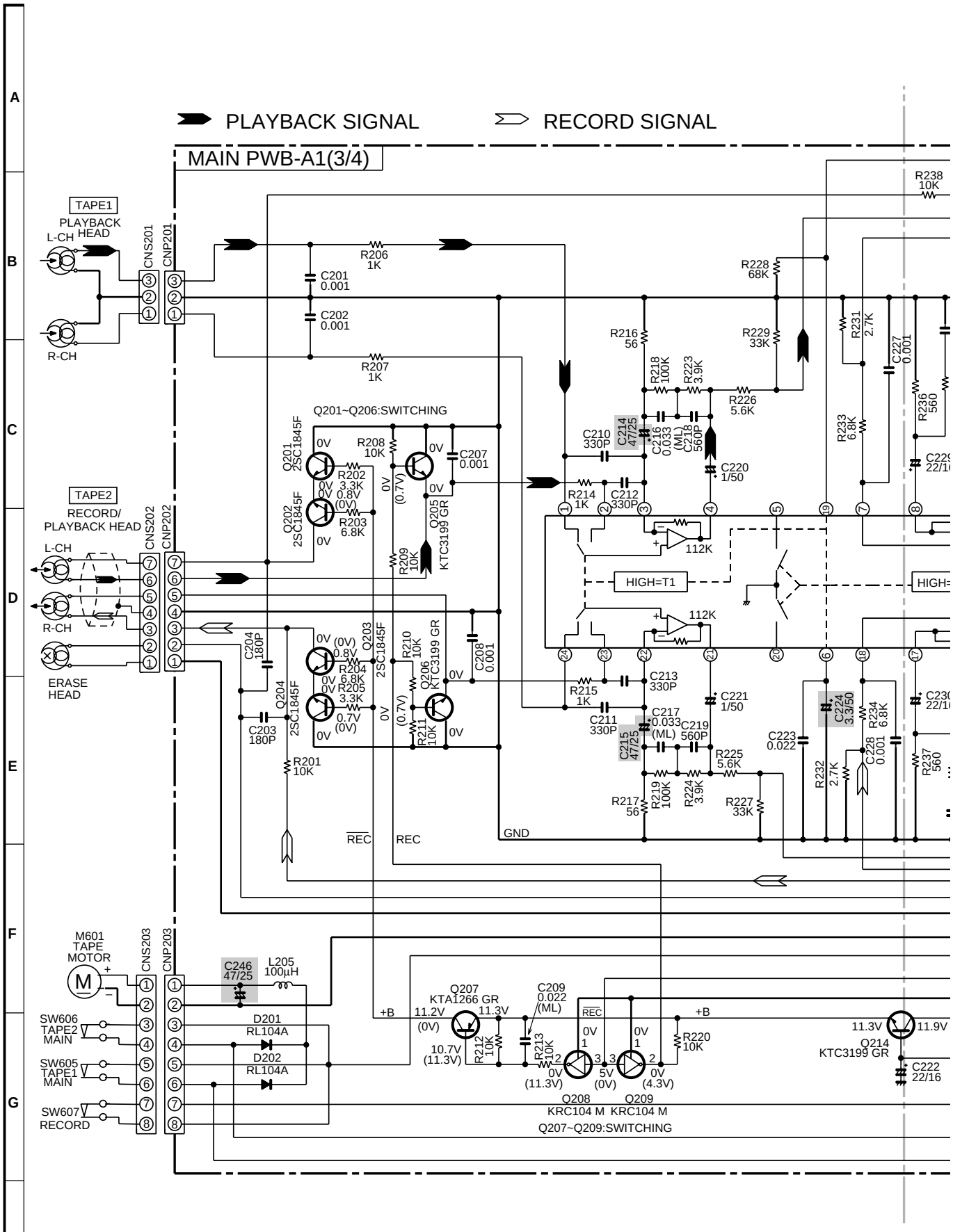
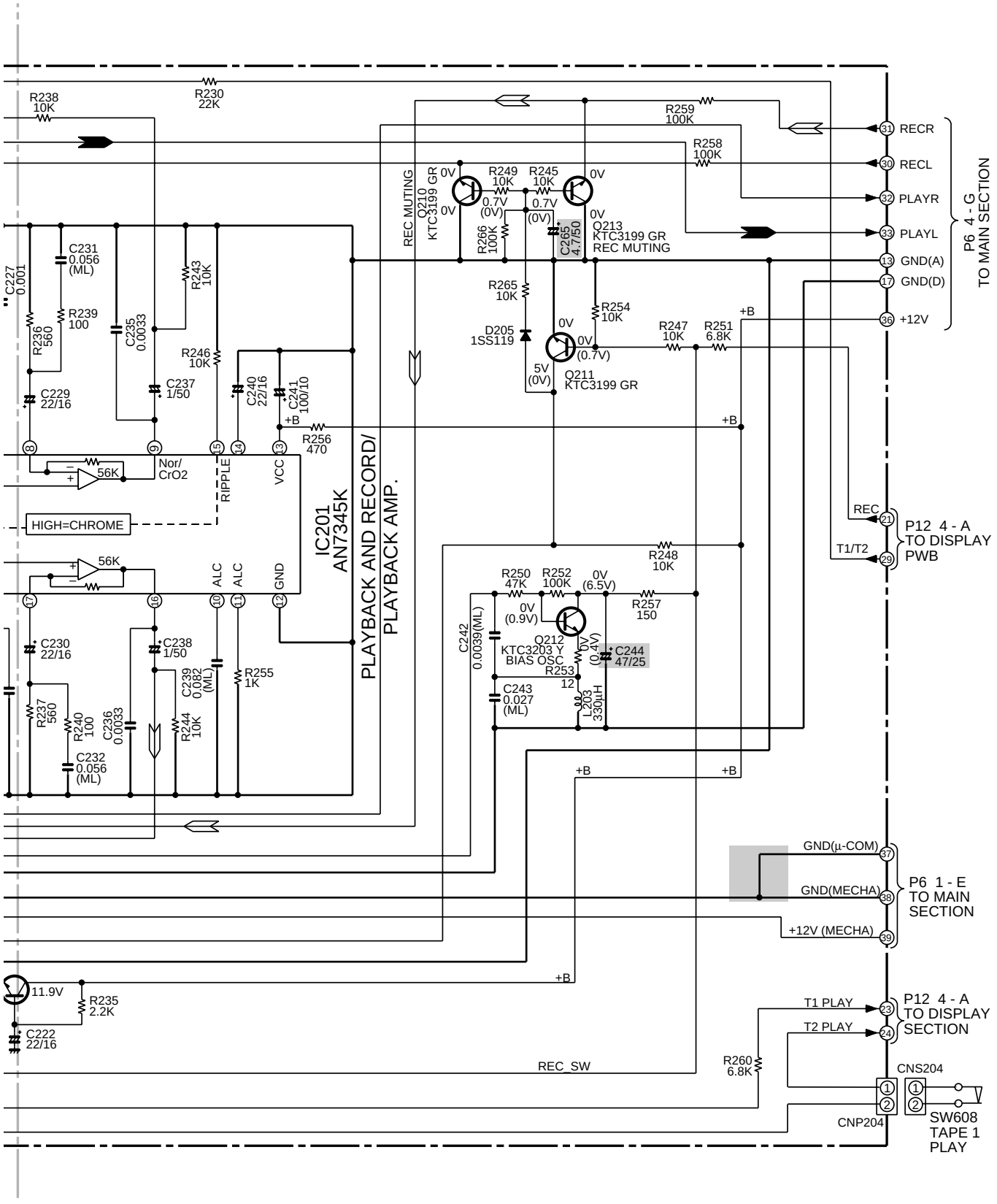
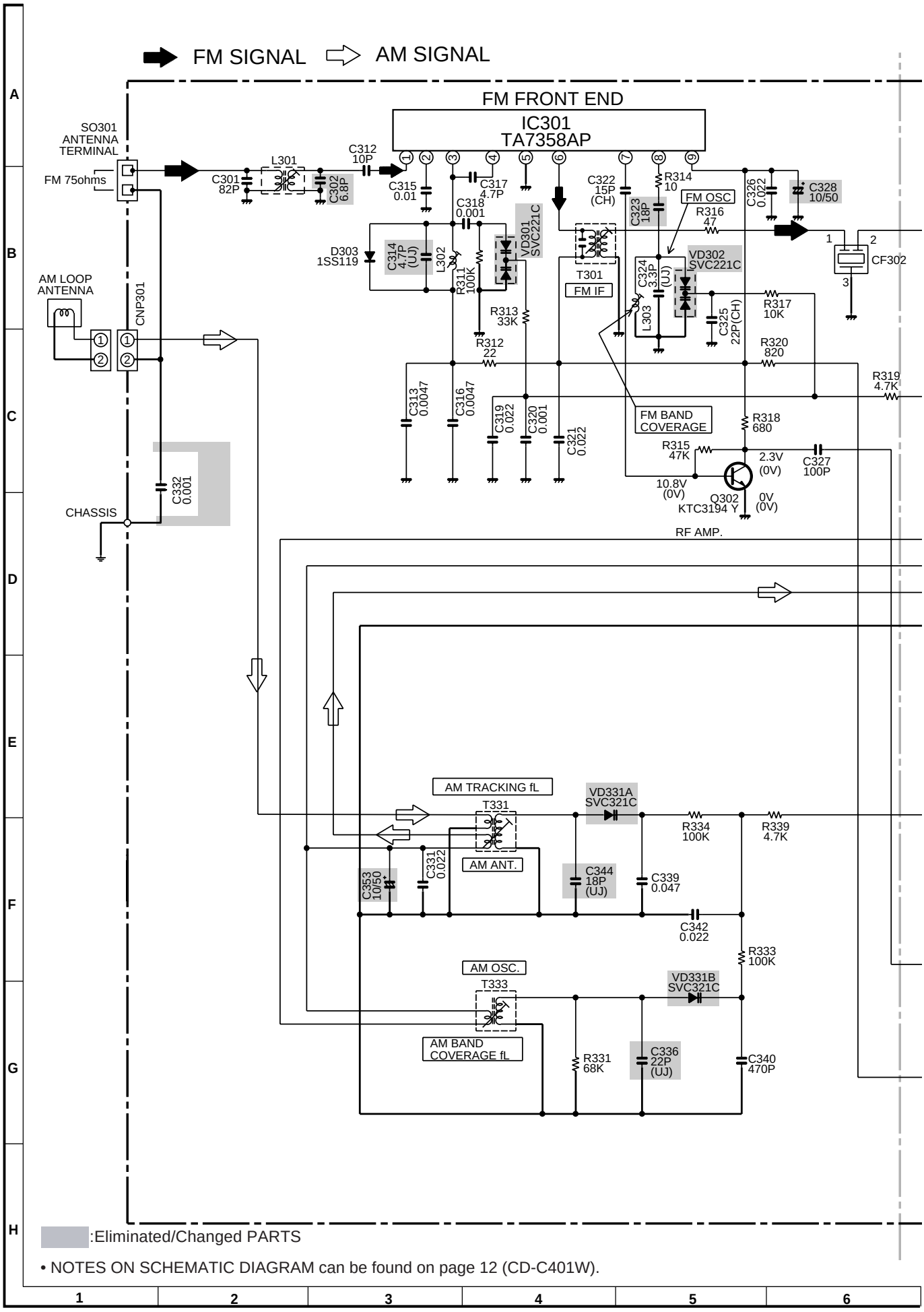


Figure 8 SCHEMATIC DIAGRAM (5/9)



7	8	9	10	11	12

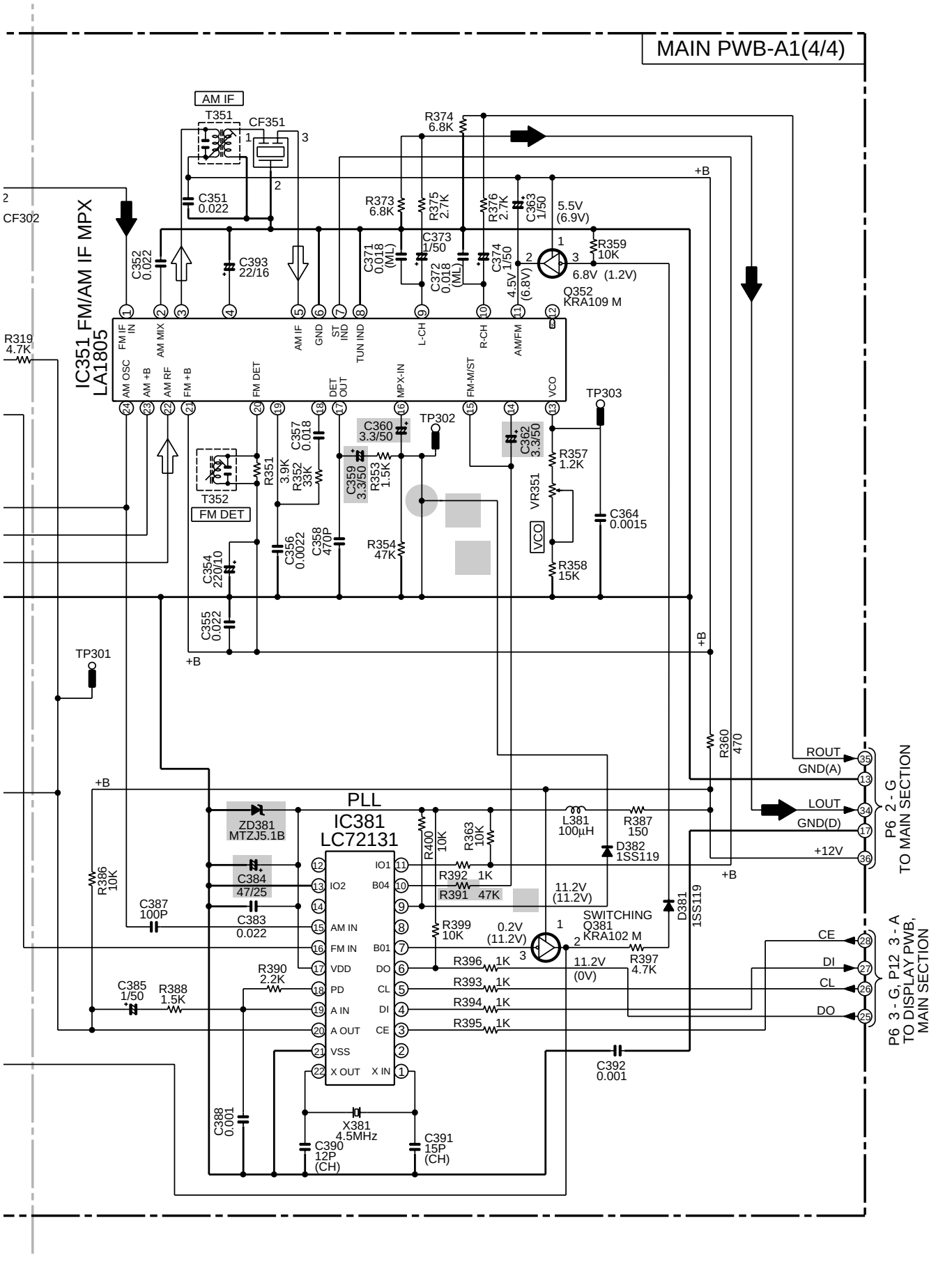
Figure 9 SCHEMATIC DIAGRAM (6/9)



:Eliminated/Changed PARTS

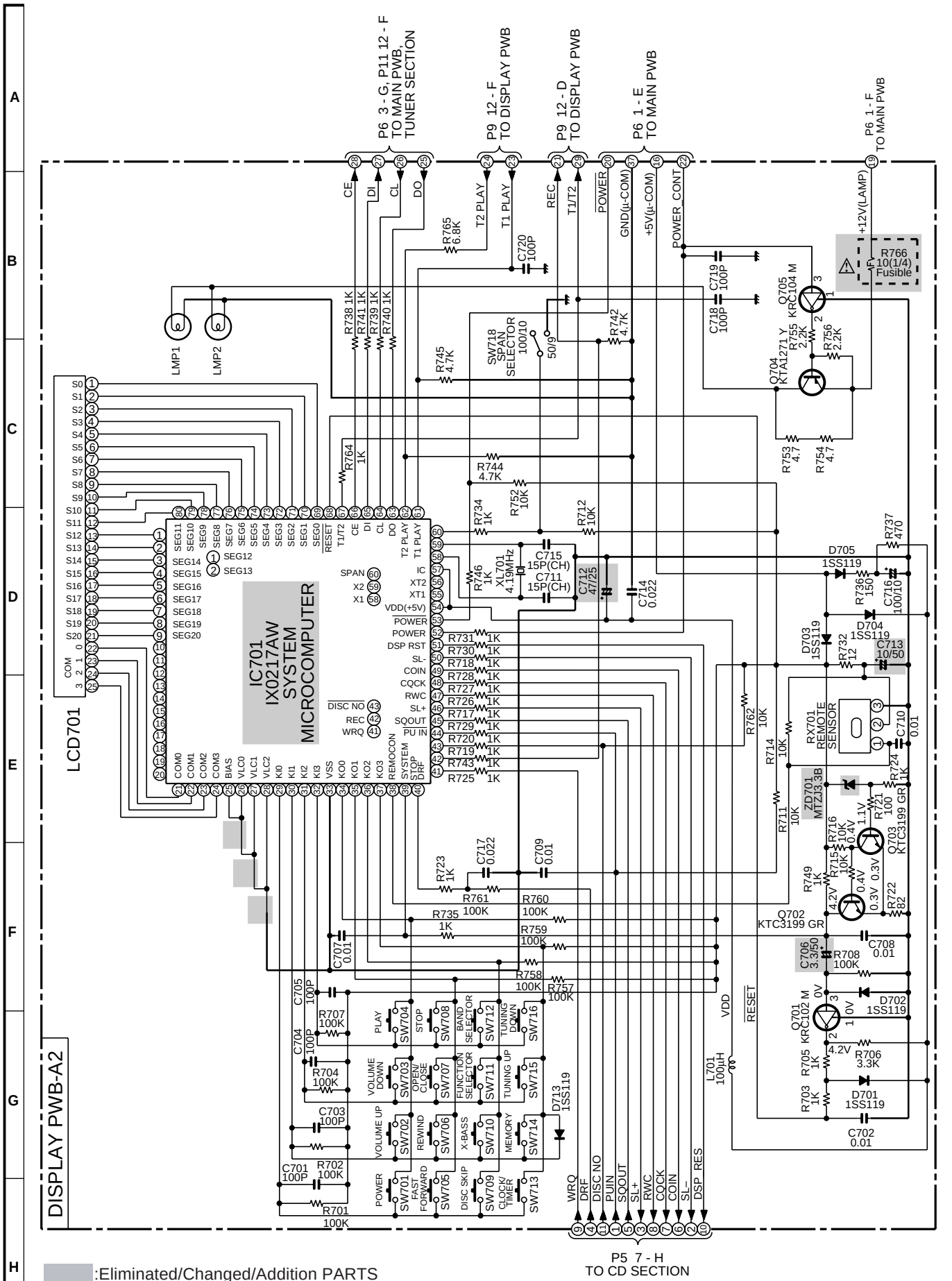
• NOTES ON SCHEMATIC DIAGRAM can be found on page 12 (CD-C401W).

Figure 10 SCHEMATIC DIAGRAM (7/9)



7	8	9	10	11	12

Figure 11 SCHEMATIC DIAGRAM (8/9)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 12 (CD-C401W).

Figure 12 SCHEMATIC DIAGRAM (9/9)

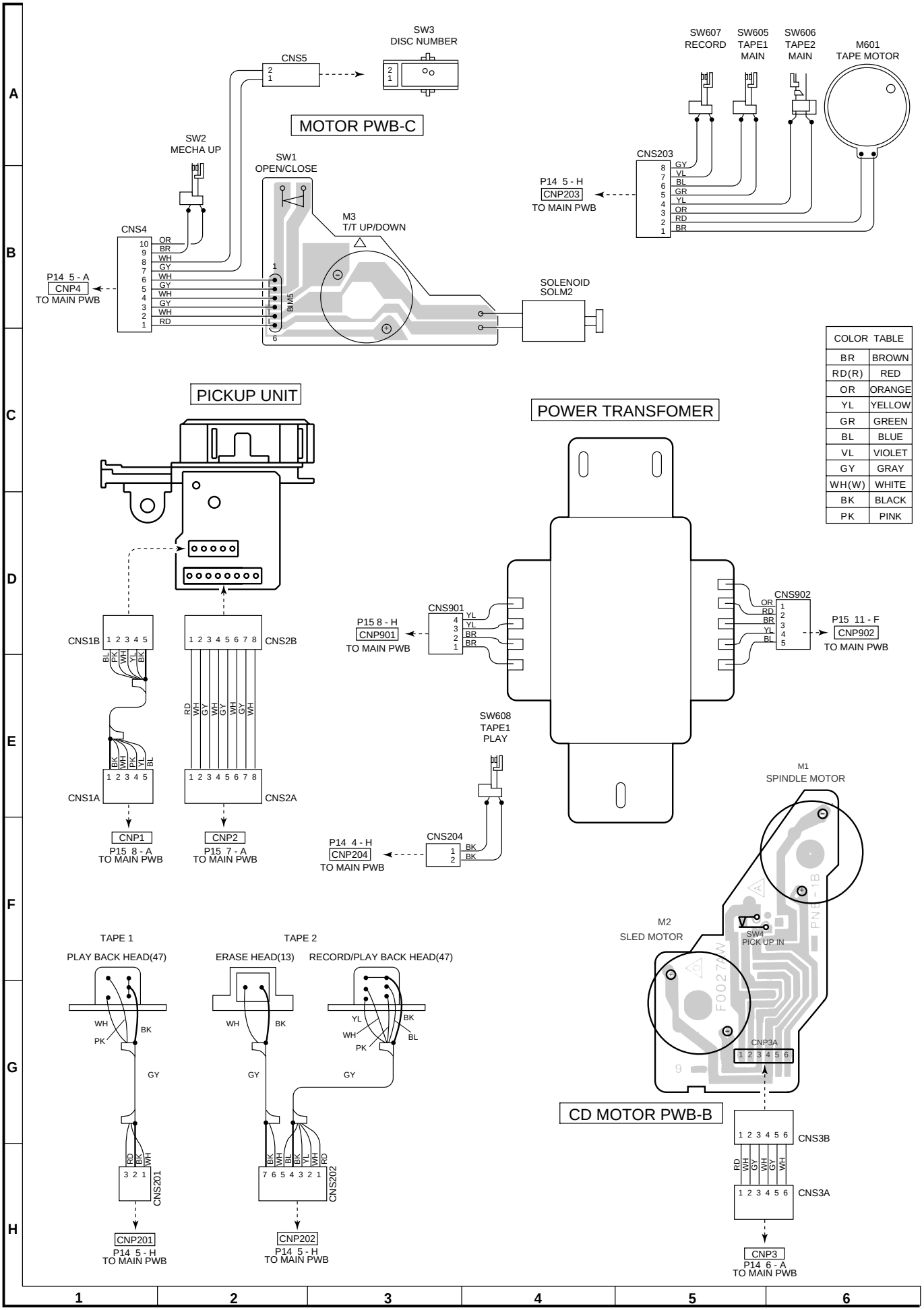
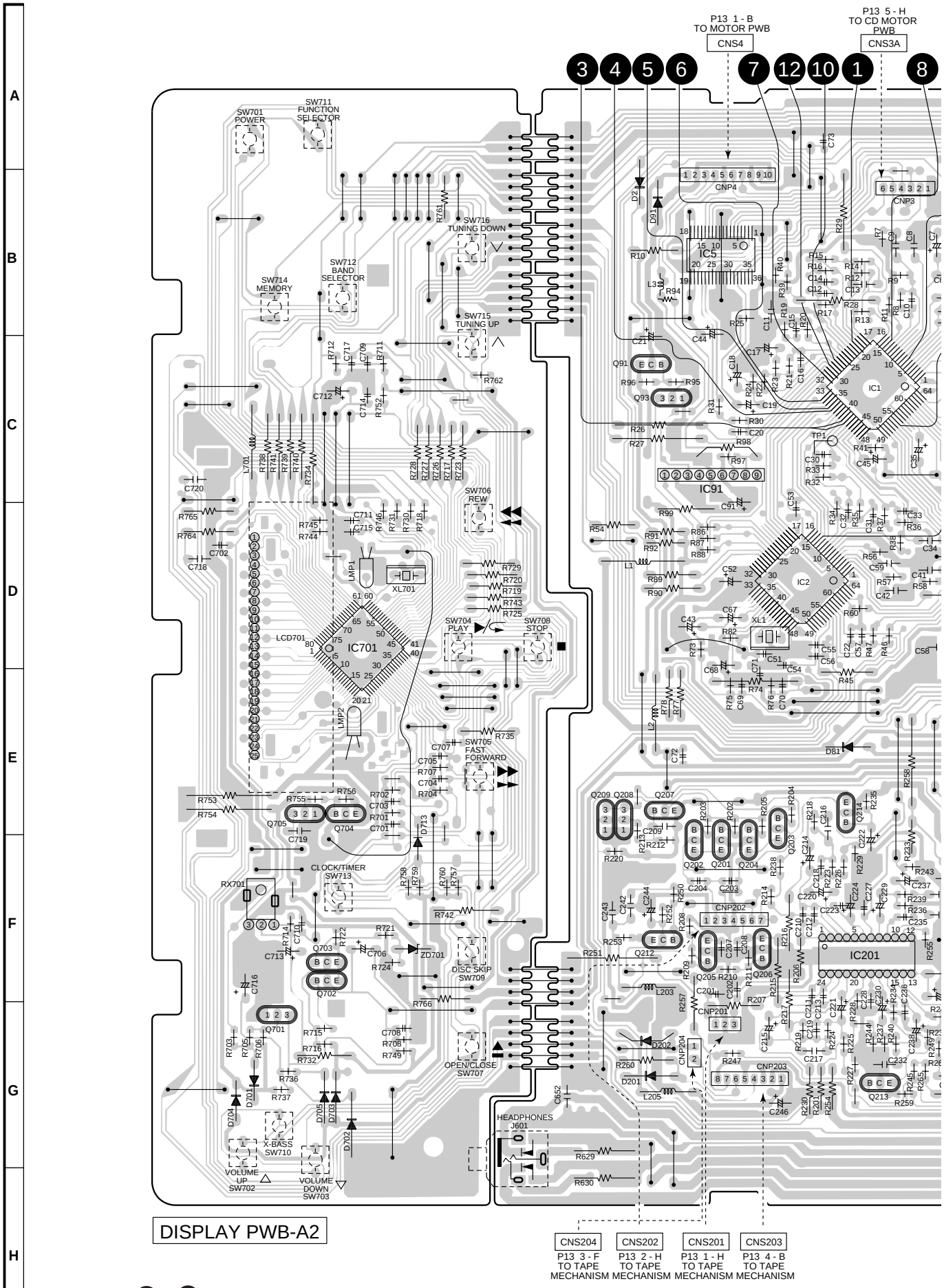
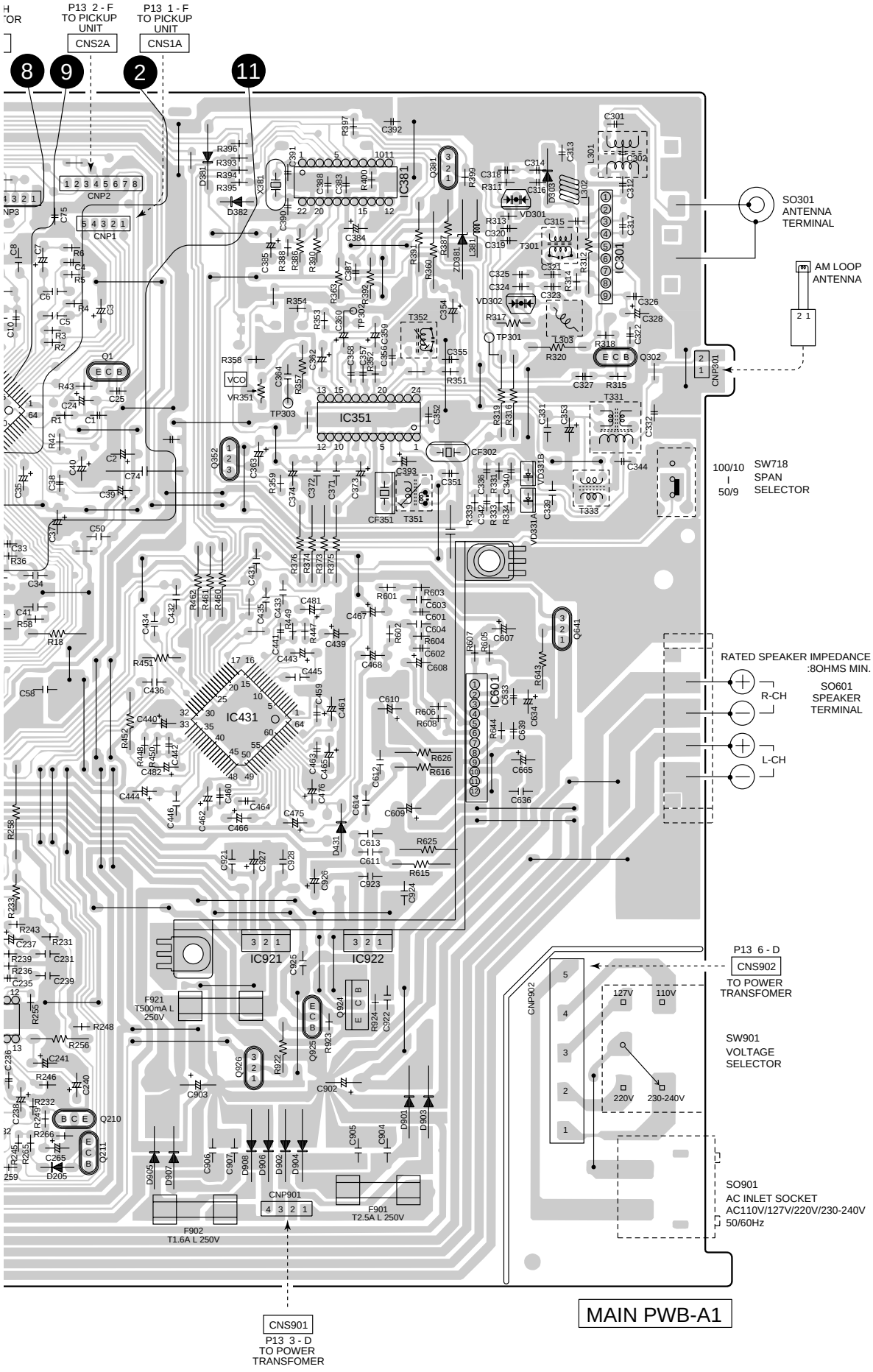


Figure 13 WIRING SIDE OF P.W.BOARD (1/3)



• The numbers 1 to 12 are waveform numbers shown in page 29 (CD-C401W).

Figure 14 WIRING SIDE OF P.W.BOARD (2/3)



7	8	9	10	11	12

Figure 15 WIRING SIDE OF P.W.BOARD (3/3)

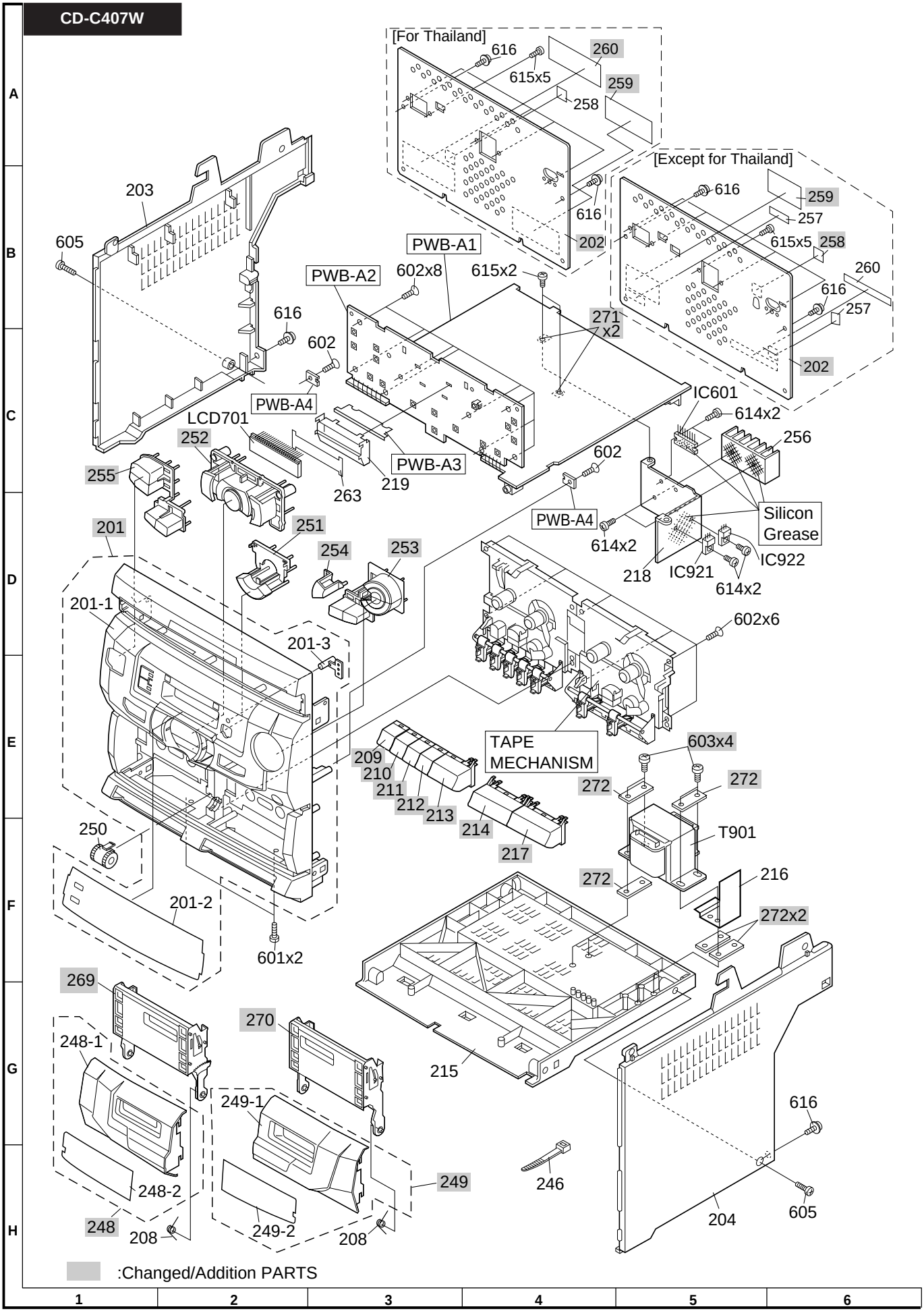


Figure 16 CABINET EXPLODED VIEW (1/2)

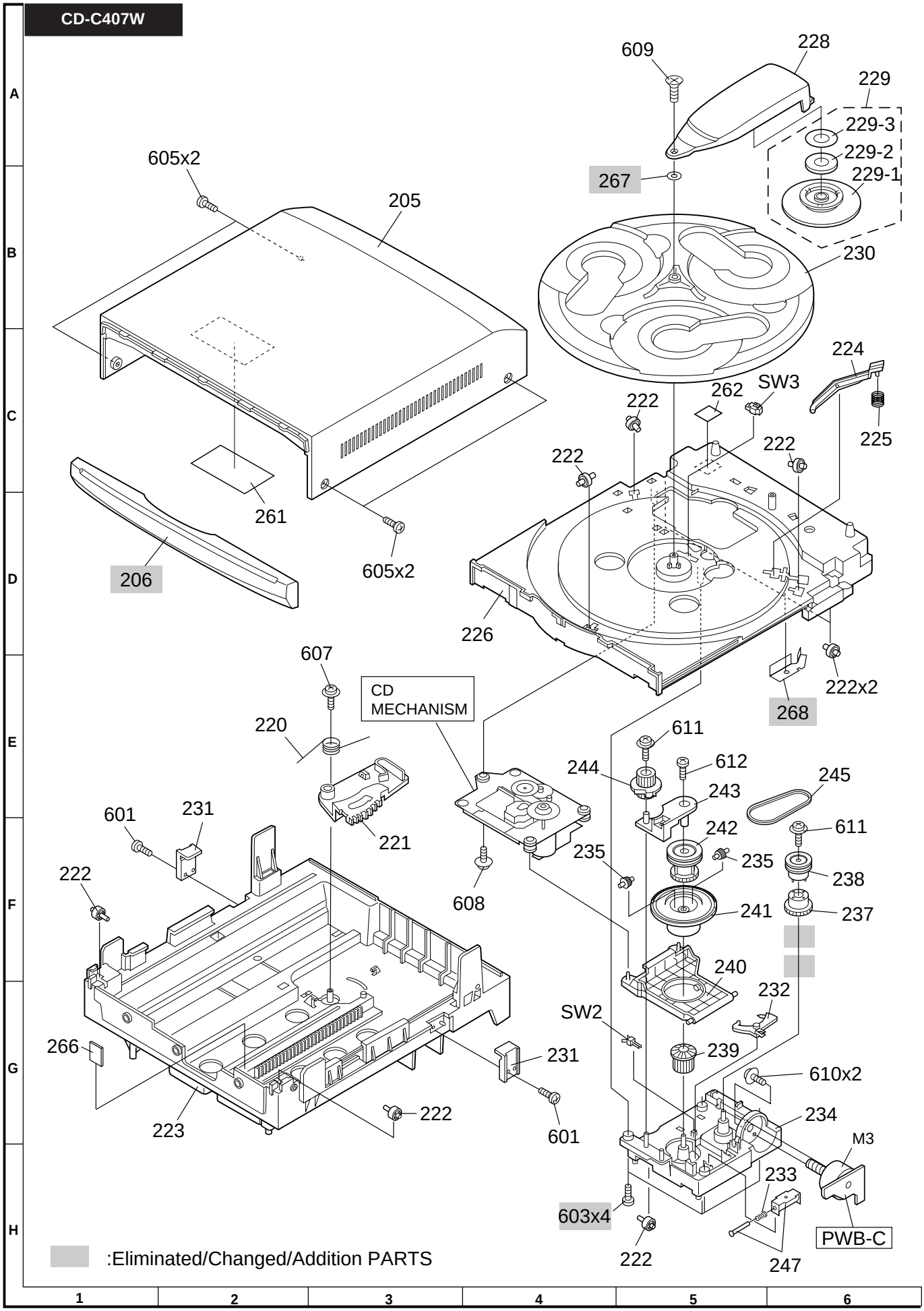


Figure 17CABINET EXPLODED VIEW (2/2)

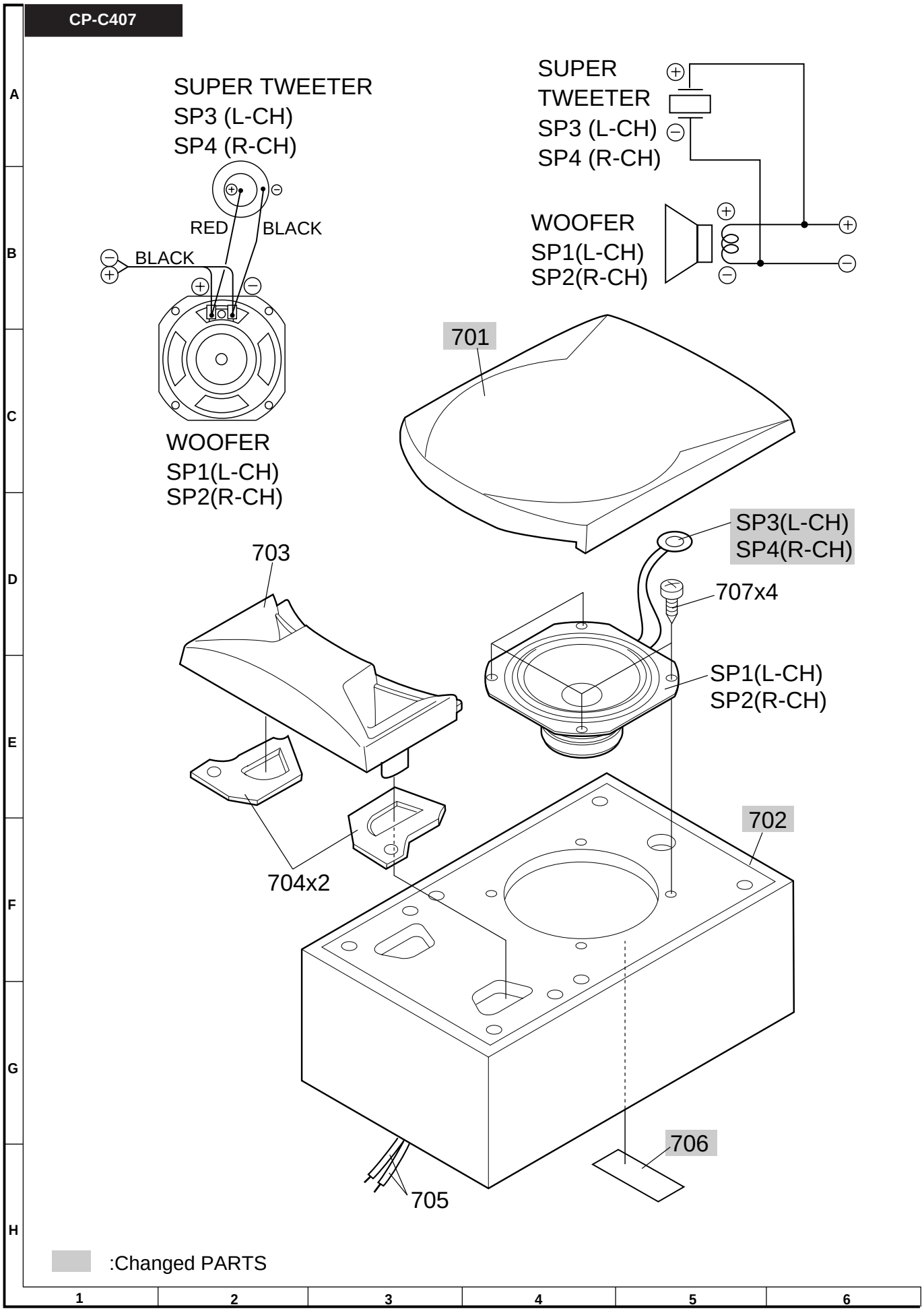


Figure 18 SPEAKER EXPLODED VIEW

— MEMO —

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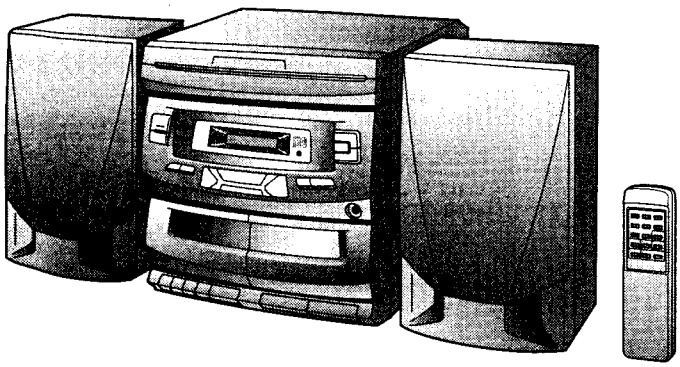
SHARP SERVICE MANUAL

No. S7750CDC401H/



CD-C401H
CP-C402

COMPACT disc DIGITAL AUDIO

CD-C401H and CP-C402 constitute CD-C401H.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

- **Note for users in UK**
  Recording and playback of any material may require consent which SHARP is unable to give. Please refer particularly to the provisions of Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1956, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

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MC-Service

SHARP CORPORATION

SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class I Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

(1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
(2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
(3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
(4) Under no circumstances look directly into the Pickup Lens at any time.
(5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

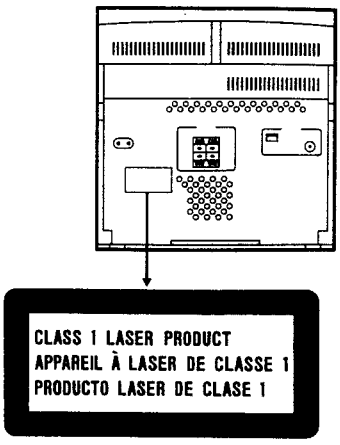
VARNING-OSYNLIG LASERSTRÅNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.

VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE.
ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

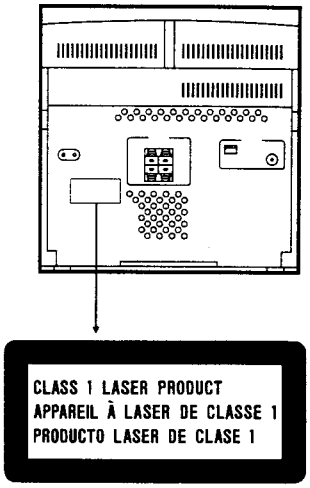
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW

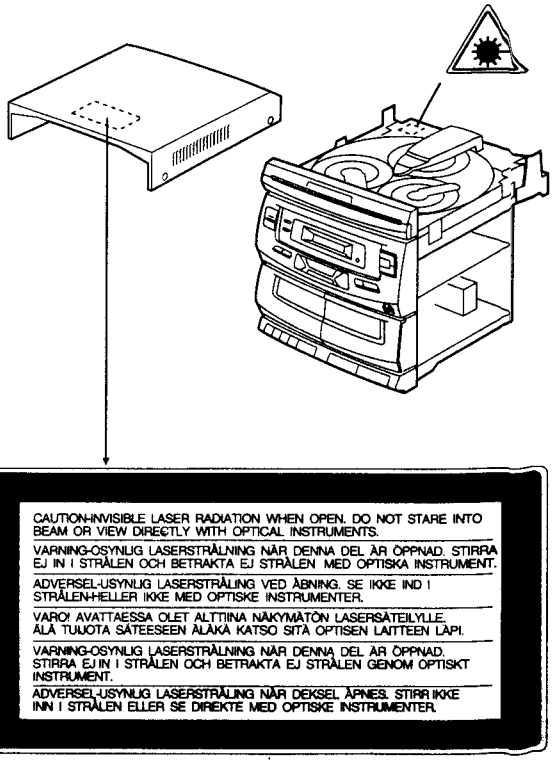
(For UK)



(Except for UK)



LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
LASER TŘÍDY 1
LASER TRIEDY 1


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.
VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

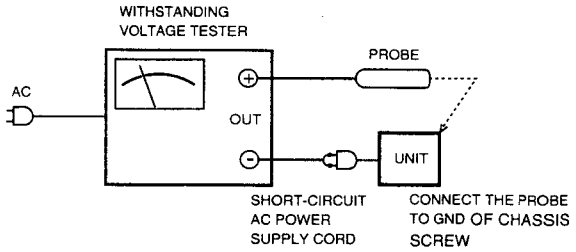
FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

IMPORTANT SERVICE NOTES (FOR UK ONLY)

Before returning the unit to the customer after completion of a repair or adjustment it is necessary for the following withstand voltage test to be applied to ensure the unit is safe for the customer to use.

Setting of Withstanding Voltage Tester and set.

Set name	set value
Withstanding Voltage Tester	
Test voltage	4,240 VPEAK 3,000 VRMS
Set time	6 secs
Set current(Cutoff current)	4 mA
Unit	
Judgment	
OK: The "GOOD" lamp lights. NG: The "NG" lamp lights and the buzzor sounds.	



SPECIFICATIONS

CD-C401H

● General

Power source: AC 230 V, 50 Hz
Power consumption: 80 W
Dimensions: Width; 270 mm (10-5/8")
Height; 280 mm (11-1/16")
Depth; 332.5 mm (13-1/8")
Weight: 4.2 kg (9.2 lbs.)

● Amplifier section

Output power: PMPO; 68 W
(Except for UK) MPO; 34 W (17 W + 17 W) (DIN 45 324)
RMS; 20 W (10 W + 10 W) (DIN 45 324)
Output power: MPO; 34 W (17 W + 17 W)
(For UK) (10 % T.H.D.)
RMS; 20 W (10 W + 10 W) (10 % T.H.D.)
Output terminals: Speakers; 8 ohms
Headphones; 16 - 50 ohms (recommended; 32 ohms)

● Tuner section

Frequency range: FM; 87.5 - 108 MHz
AM; 522 - 1,620 kHz

● Cassette deck section

Frequency response: 50 - 14,000 Hz (Normal tape)
Signal/noise ratio: 50 dB (TAPE 1, recording/playback)
55 dB (TAPE 2, playback)
Wow and flutter: 0.25 % (DIN 45 511)
(Except for UK)
Wow and flutter: 0.15 % (WRMS)
(For UK)

● Compact disc player section

Type: 3-disc multi-play compact disc player
Signal readout: Non-contact, 3-beam semiconductor laser pickup
D/A Converter: 1-bit D/A converter
Frequency response: 20 - 20,000 Hz
Dynamic range: 90 dB (1 kHz)

CP-C402

● Speaker section

Type: 10 cm (4") full range speaker
Maximum input power: 20 W
Impedance: 8 ohms
Dimensions: Width; 170 mm (6-11/16")
Height; 280 mm (11")
Depth; 151 mm (5-15/16")
Weight: 1.4 kg (3.1 lbs.)/each

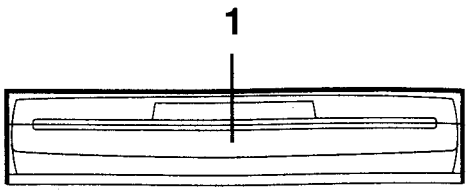
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

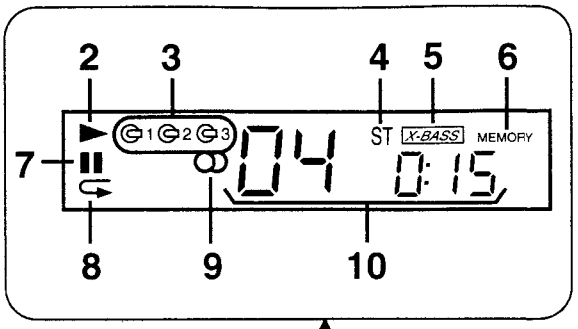
CD-C401H

■ Front Panel

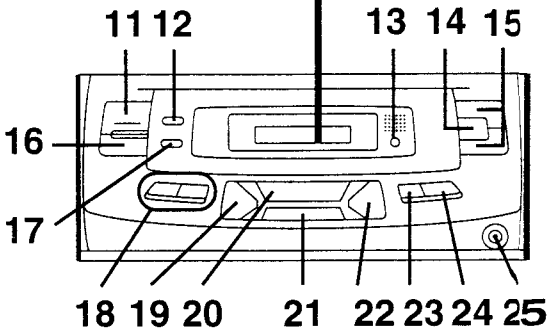
1. Disc Tray



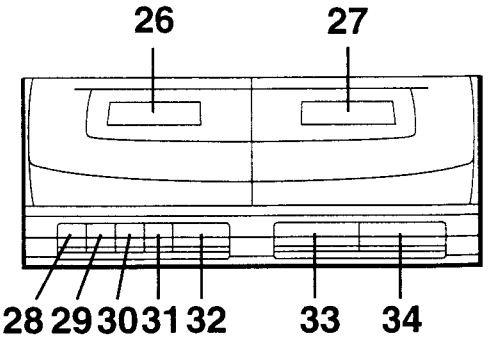
2. CD Play Indicator: ▶
3. Disc Number Indicators
4. FM Stereo Mode Indicator: ST
5. Extra Bass Indicator: X-BASS
6. Memory Indicator
7. CD Pause Indicator: ❚❚
8. CD Repeat Indicator: ⟳
9. FM Stereo Indicator: ◎
10. Function/CD Track/CD Counter/Frequency/Preset Channel/Volume Indicator



11. On/Stand-by Switch
12. Memory Set Button
13. Clock/Timer Button
14. Extra Bass Button: X-BASS
15. Volume Up/Down Buttons: ▽/△
16. Function Selector Button
17. Band Selector Button
18. Tuning Up/Down Buttons: ∨/∧
19. Track Down/Review/Preset Down Button: ◀◀/|◀◀
20. Play/Repeat Button: ▶⟳
21. Stop Button: ■
22. Track Up/Cue/Preset Up Button: ▶▶/▶▶|
23. Disc Skip Button
24. Open/Close Button: ▲
25. Headphone Socket



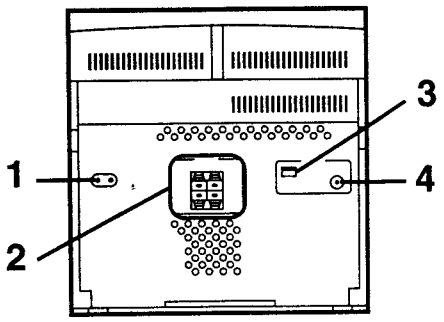
26. (TAPE 1) Cassette Compartment
27. (TAPE 2) Cassette Compartment
28. (TAPE 1) Record Button: ●
29. (TAPE 1) Play Button: ▶
30. (TAPE 1) Rewind Button: ◀◀
31. (TAPE 1) Fast Forward Button: ▶▶
32. (TAPE 1) Stop/Eject Button: ■/▲
33. (TAPE 2) Play Button: ▶
34. (TAPE 2) Stop/Eject Button: ■/▲



CD-C401H

■ **Rear Panel**

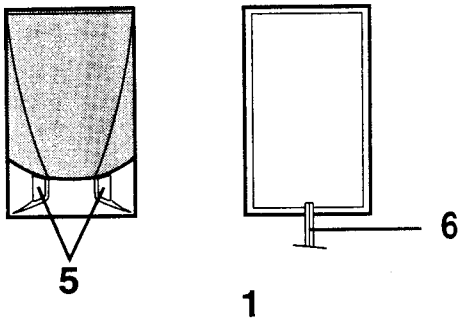
1. AC Power Input Socket
2. Speaker Terminals
3. AM Loop Aerial Input Socket
4. FM 75 ohms Aerial Socket



CP-C402

■ **Speaker Section**

5. Bass Reflex Duct
6. Speaker Wire



CD-C401H

■ **Remote Control**

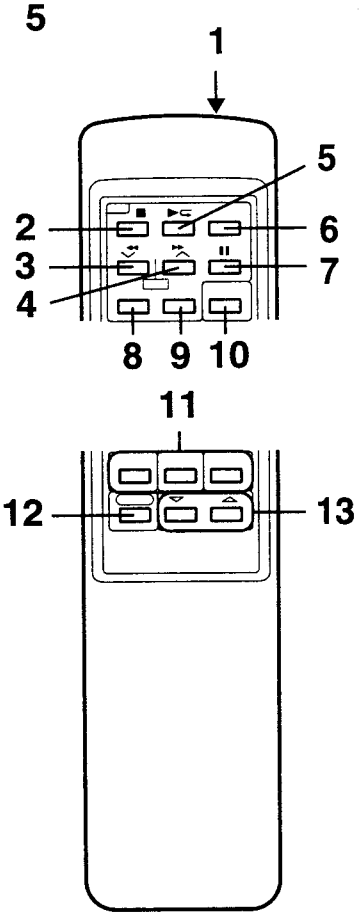
1. Remote Control Transmitter LED

● **CD Control section**

2. Stop Button: ■
3. (CD) Track Down/Review Button: ◀◀/I◀◀
   (TUNER) Preset Down Button: ∨
4. (CD) Track Up/Cue Button: ▶▶/▶▶I
   (TUNER) Preset Up Button: ∧
5. Play/Repeat Button: ▶⊂
6. Disc Skip Button
7. Pause Button: ❚❚
8. Memory Button
9. Clear Button

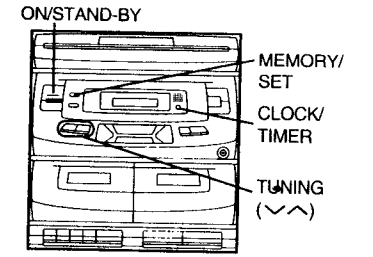
● **Common section**

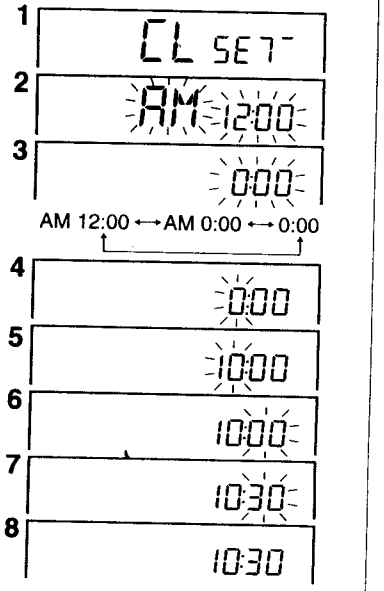
10. Extra Bass Button: X-BASS
11. Function Selector Buttons
12. Power Button
13. Volume Up/Down Buttons: ▽/△



SETTING THE CLOCK

In this example, the clock is set for the 24-hour (0:00) system.





1 Press the ON/STAND-BY switch to enter the stand-by mode.

2 Press the MEMORY/SET button.

3 Press the TUNING (∨or∧) button to select the time display mode.

"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)
"AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)
"0:00" → The 24-hour display will appear. (0:00 - 23:59)

- Note that this can only be set when the unit is first installed or it has been reset (see below).

4 Press the MEMORY/SET button.

5 Press the TUNING (∨or∧) button to adjust the hour.

- Press the TUNING button once to advance the time by 1 hour. Press for more than 0.5 seconds to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

6 Press the MEMORY/SET button.

7 Press the TUNING (∨or∧) button to adjust the minutes.

- Press the button for at least 0.5 seconds to advance continuously.
- The hour setting will not advance even if minutes advance from "59" to "00".

8 Press the MEMORY/SET button.

- The clock starts operating from "0" seconds. (Seconds are not displayed.)

Note:

- In the event of a power failure or when the AC power lead is disconnected, the clock display will go out.
  When the AC power supply is resumed, the clock display will flash on and off to indicate that the time must be reset.
  If this happens, follow steps 1 and 4 - 8 in the procedure described above.

To change the clock time:

When the ON/STAND-BY switch is set to STAND-BY.
①Press the MEMORY/SET button.
②Perform steps 5 - 8 above.

When the ON/STAND-BY switch is set to ON.
①Press the CLOCK/TIMER button.
②Within 3 seconds, press the MEMORY/SET button.
③Perform steps 5 - 8 above.

To change the time display mode:

1 Press the ON/STAND-BY switch to enter the stand-by mode.

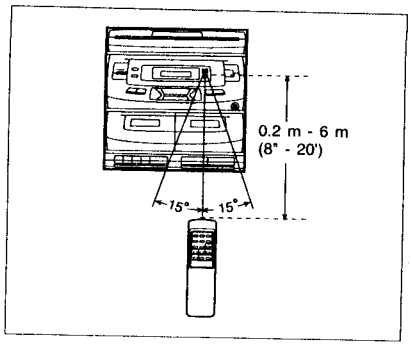
2 Press and hold down the ■ button, and then hold down the ON/STAND-BY switch for at least 1 second.
(Refer to RESETTING THE MICROCOMPUTER on page 15.)

3 Perform steps 1 - 8 above.

Note:

- The operation explained above will erase all data stored in memory, such as clock and timer settings, tuner and CD presets.

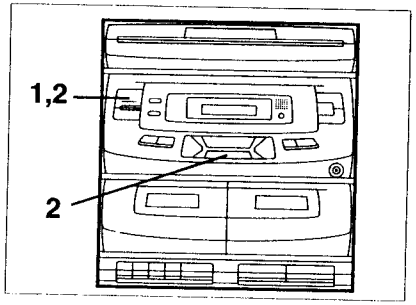
PREPARATION FOR USE



Notes concerning use:

- Replace the batteries if control distance decreases or operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

RESETTING THE MICROCOMPUTER



Reset the microcomputer under the following conditions:

- To erase all of the stored memory contents (clock and timer settings, tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

1 Press the ON/STAND-BY switch to enter the stand-by mode.

2 Press and hold down the ■ button, and then hold down the ON/STAND-BY switch for at least 1 second.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-C401H

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	7-1
2	Side Panel (Left/right)	1. Screw ..... (B1) x6	7-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Hook ..... (C1) x3 3. Hook ..... (C2) x2 4. Socket ..... (C3) x4	7-2
4	Back Board	1. Screw ..... (D1) x4	7-2
5	Main PWB/ Display PWB	1. Screw ..... (E1) x10 2. Hook ..... (E2) x2 3. Socket ..... (E3) x5	8-1
6	Front Panel	1. Screw ..... (F1) x2 2. Hook ..... (F2) x3	8-1
7	Tape Mechanism	1. Open the cassette holder. 2. Screw..... (G1) x6	8-2
8	Turntable	1. Screw ..... (H1) x1 2. Cover ..... (H2) x1	8-3
9	Disc Tray	1. Screw ..... (J1) x2 2. Guide ..... (J2) x2	8-3
10	CD Changer Mechanism	1. Screw ..... (K1) x4	8-4
11	CD Mechanism	1. Screw ..... (L1) x1	8-4

Note 1 :

How to open the change manually. (Fig. 7-3)

1. Insert the tip of fine screwdriver into the hole of CD player base, and press down the worm wheel **<A>**.
2. Then, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom in this state. After that, push forward the CD player base.

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STEP	REMOVAL	PROCEDURE	FIGURE
1	Speaker	1. Front panel ..... (A1) x1 2. Screw ..... (A2) x4	8-5 8-6

CD-C401H

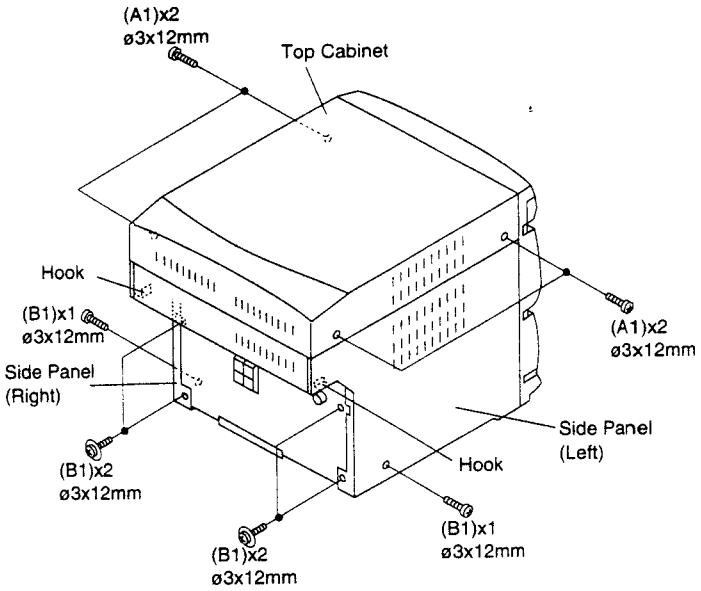


Figure 7-1

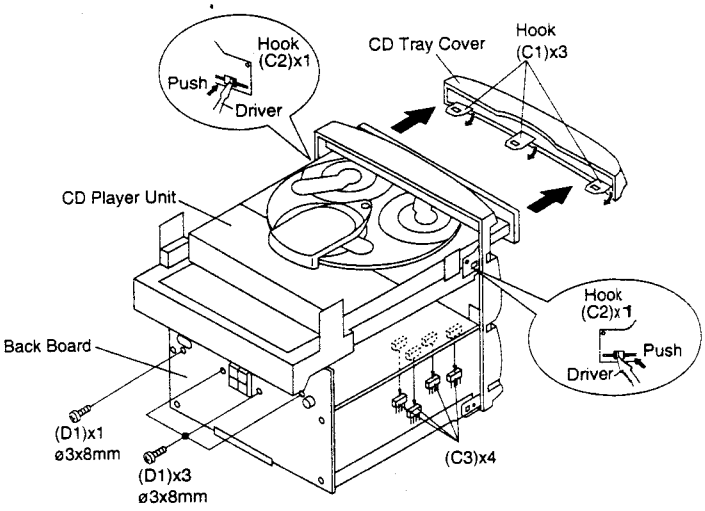


Figure 7-2

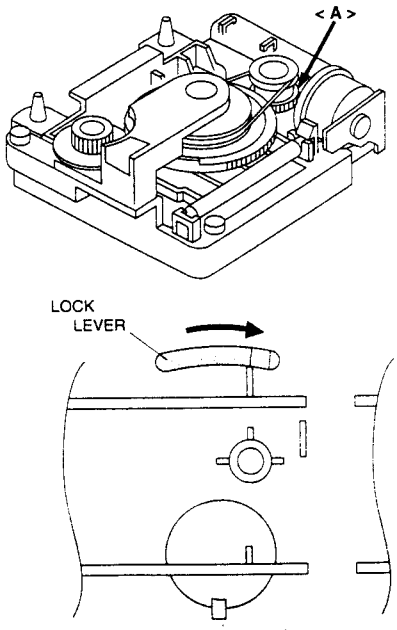


Figure 7-3

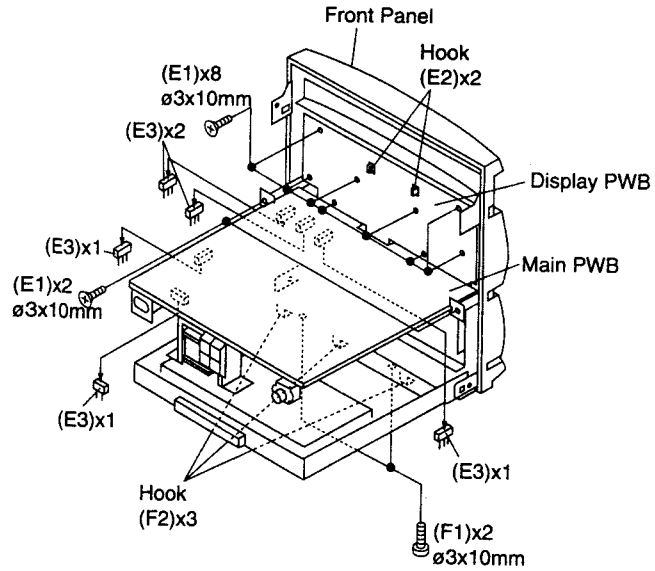


Figure 8-1

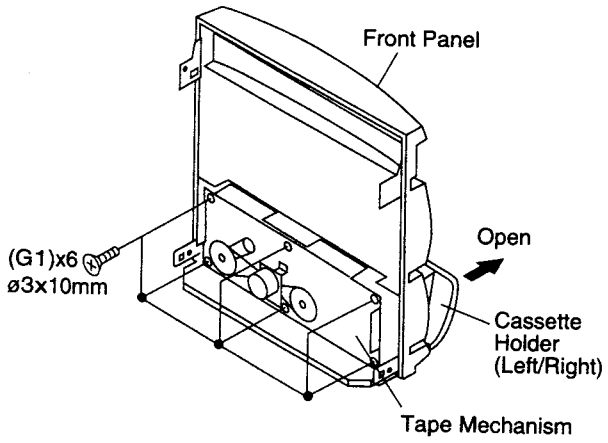


Figure 8-2

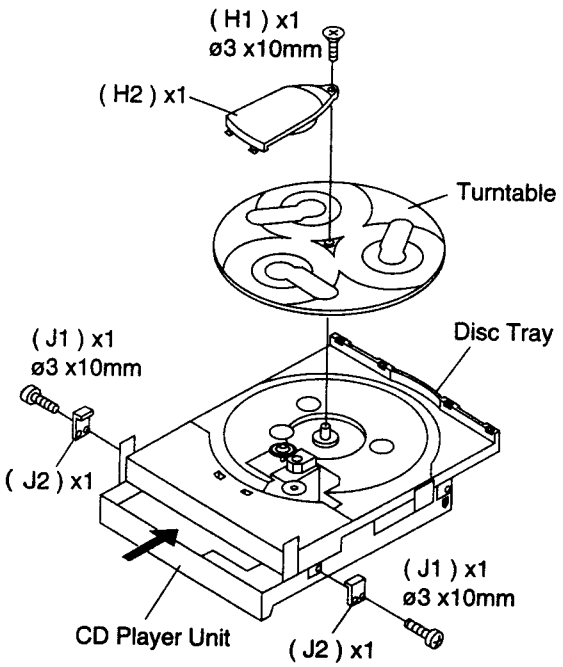
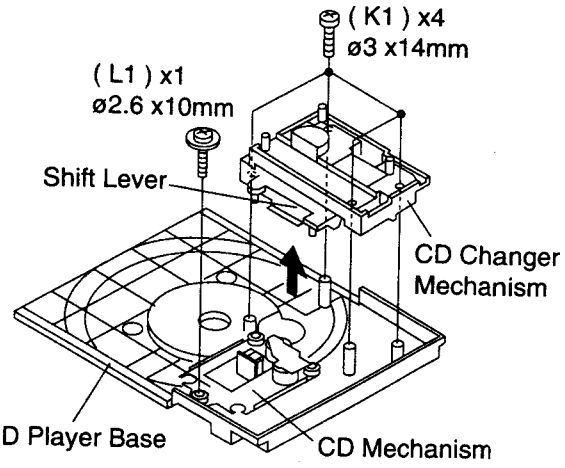


Figure 8-3



Care when installing the CD changer mechanism.
Install the CD changer mechanism on the CD player base after the shift lever has been set in the highest position.

Figure 8-4

CP-C402

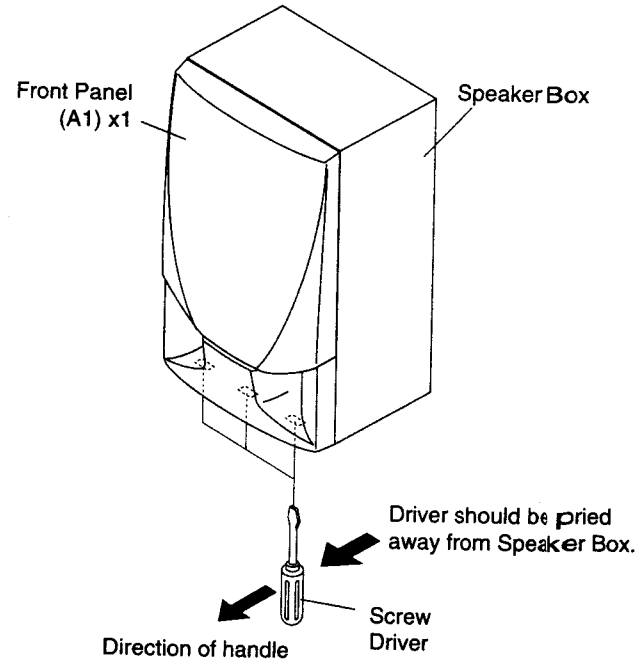


Figure 8-5

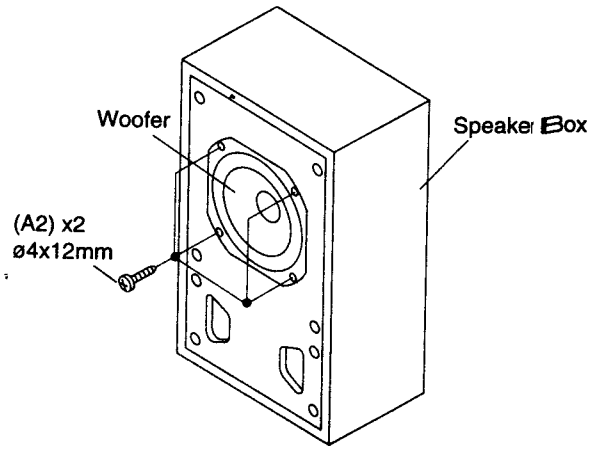


Figure 8-6

REMOVING AND REINSTALLING THE MAIN PARTS

CD MECHANISM SECTION

Perform steps 1, 2, 3, 13 and 14 of the disassembly method to remove the CD mechanism.

How to remove the turntable up/down motor (See Fig. 9-1)

1. Remove the screws (A1) x 2 pcs., to remove the turntable up/down motor.

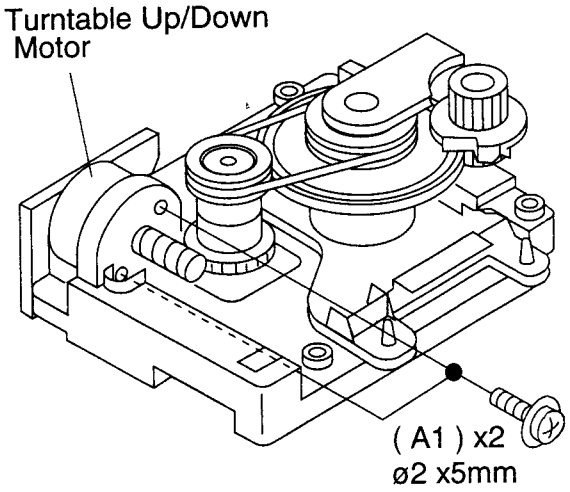


Figure 9-1

How to remove the pickup (See Fig. 9-2)

1. Remove the screws (B1) x 2 pcs., to remove the shaft (B2).
2. Remove the stop washer (B3) x 1 pc., to remove the gear (B4).
3. Remove the pickup.

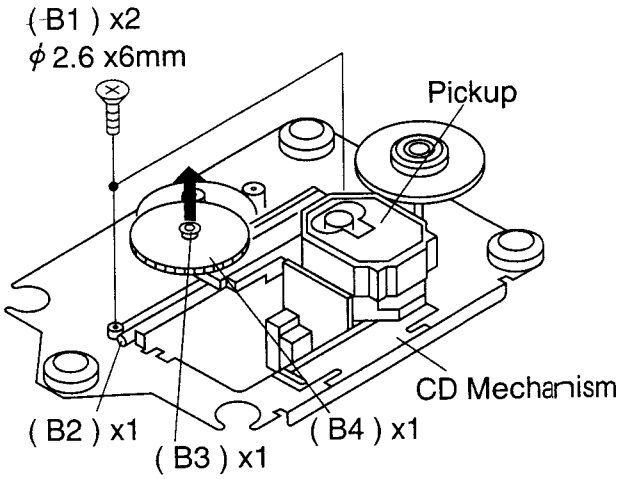


Figure 9-2

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2412	Tape 1: Over 50 g Tape 2: Over 100 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 60 g. cm	30 to 60 g.cm
Fast forward: TW-2231	—	80 to 135 g.cm
Rewind: TW-2231	—	80 to 135 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Volume in motor	3,000 ± 30 Hz	Speaker terminal (Load resistance: 8 ohms)

TUNER SECTION

fL: Low-range frequency
fH: High-renge frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,620 kHz	T351	*1
Band Coverage	—	522 kHz	(fL): T333 1.1 ± 0.1 V	*2
Tracking	990 kHz	990 kHz	(fL): T331	*1

*1. Input: Antenna (CNP301), Output: TP302
*2. Input: Antenna (CNP301), Output: TP301

• FM RF

Signal generator: 1 kHz, 75 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Serring/ Adjusting Point	Instrument Connection
Band Coverage	—	87.50 MHz	L303(fL): 3.4 V ± 50 mV	*1
RF	98.00 MHz (10-30 dB)	98.00 MHz	L302	*2

*1. Input: Antenna (CNP301), Output: TP301
*2. Input: Antenna (CNP301), Output: Speaker terminal

• Detection

Signal generator: 10.7 MHz, FM sweep generator

Test Stage	Frequency	Frequency Display	Adjusting Parts	Instrument Connection
Detection	10.7 MHz	98.00 MHz	T352	Input: Pin 1 of IC301 Output: TP302
IF	10.7 MHz	98.00 MHz	T301(Turn the core of transformer T352 fully counter-clookwise.)	Input: Pin 1 of IC301 Output: TP302

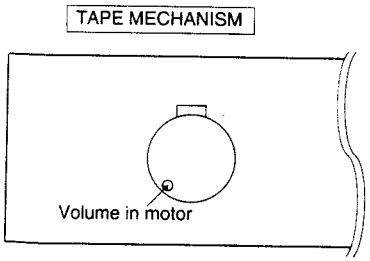
• VCO Frequency

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
98.00 MHz (60 dB)	98.00 MHz	VR351*	Pin 13, Pin 21 and ground of IC351

* Adjust for 76 kHz ± 200 Hz.

Notes:

After preparing the test circuit shown in Fig 10-2, connect the Pin 13 , Pin 21 and ground of the IC351 with test circuit, and measure the Value.
At this time, apply a standard unmodulated signal input and adjust the VCO.



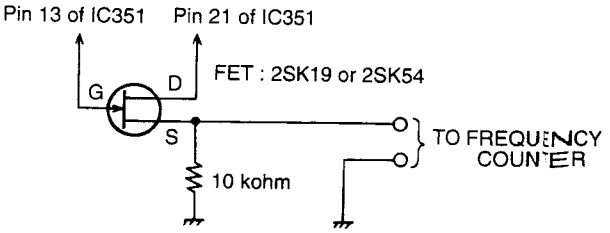


Figure 10-2

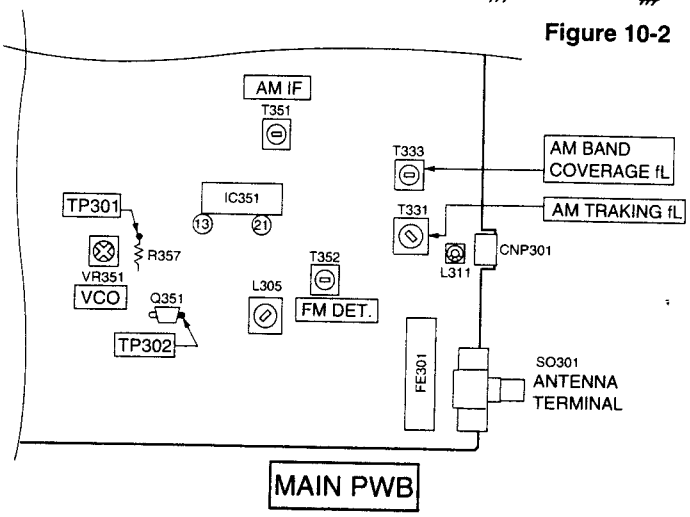


Figure 10-1 ADJUSTMENT POINTS

CD SECTION

Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to readjust it.
Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

• Automatic adjustment item

1. Focus offset (Fig. 11-1)
2. Tracking offset (Fig. 11-2)
3. E/F balance (tracking error balance) (Fig. 11-3)
4. RF level AGC function (HF level: constant)
5. RF level automatic follow-up of the tracking gain

This automatic adjustment is performed each time a disc is changed.
Therefore, each disc is played back using the optimal settings.

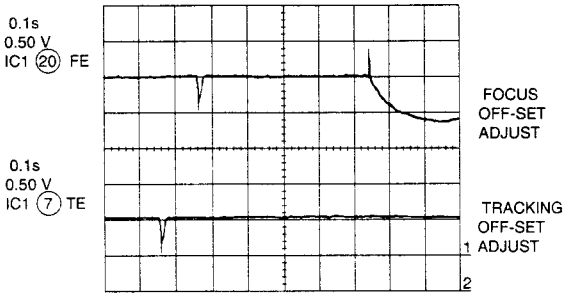


Figure 11-1

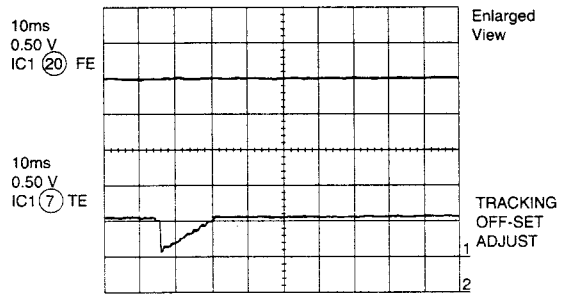


Figure 11-2

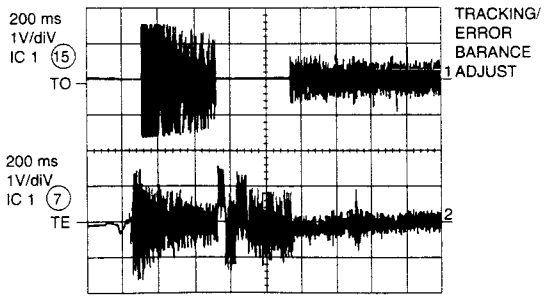


Figure 11-3

CD TEST MODE

When the PLAY ► and POWER keys are pressed at the same time in OFF MODE, the set will enter CD TEST MODE
↓
"CD TEST" of LCD will light up.
↓
The pickup can be moved by using the (►►) or (◄◄) key.

IL is not performed.

Press PLAY key
↓
LASER ON
Press PLAY key
↓
FOCUS SERVO ON
Press PLAY key
↓
TRACKING ON THE STOP
SERVO OFF PLAY
Display "CD 01 0:00"
Press PLAY key
↓
TRACKING ON THE STOP
SERVO OFF PLAY
Press PLAY key
↓
STOP "CD TEST" will display

Cancel method: POWER OFF

LCD display: After the PLAY or APMS MEMORY key has been pressed, the track No. and time only will appear (valid). The other items are optional.

Note: The pickup can be slid using the ►► or ◄◄ key only while in the stop mode.

ALL CLEAR AND RE-START FUNCTION

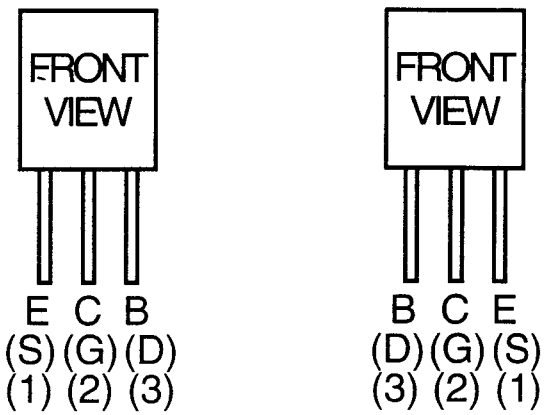
When the STOP and POWER keys are pressed to turn on the power, the entire internal memory will be cleared and the mechanism will run from address 0.
All of the tuner presets, APMS, TOC and disc numbers which were last stored in memory will be cleared, and the tuner, changer mechanism and all of the other items will be initialized.

NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     ( ) indicates AM
     < > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with "⚠" (⊏ ⚌ ⚌ ⚌ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	MECHA UP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW605	TAPE 1 MAIN	ON—OFF
SW606	TAPE 2 MAIN	ON—OFF
SW607	REC.	ON—OFF
SW608	TAPE 1 PLAY	ON—OFF
SW701	POWER	ON—OFF
SW702	VOLUME UP	ON—OFF
SW703	VOLUME DOWN	ON—OFF
SW704	PLAY	ON—OFF
SW705	FF	ON—OFF
SW706	REW	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW707	OPEN/CLOSE	ON—OFF
SW708	STOP	ON—OFF
SW709	DISC SKIP	ON—OFF
SW710	X-BASS	ON—OFF
SW711	FUNCTION	ON—OFF
SW712	BAND	ON—OFF
SW713	CLOCK/TIMER	ON—OFF
SW714	MEMORY	ON—OFF
SW715	TUNING UP	ON—OFF
SW716	TUNING DOWN	ON—OFF
SWM 3	FOOL PROOF	ON—OFF
SWM 4	F.A.S.	ON—OFF
SWM 5	CAM	ON—OFF



2SC1845 F
2SC380 O
KRA102 M
KRA109 M
KRC102 M
KRC104 M
KTA1266 GR
KTA1271 Y
KTC3199 GR
KTC3203 Y
2SD2012 Y

Figure 12 TYPES OF TRANSISTOR

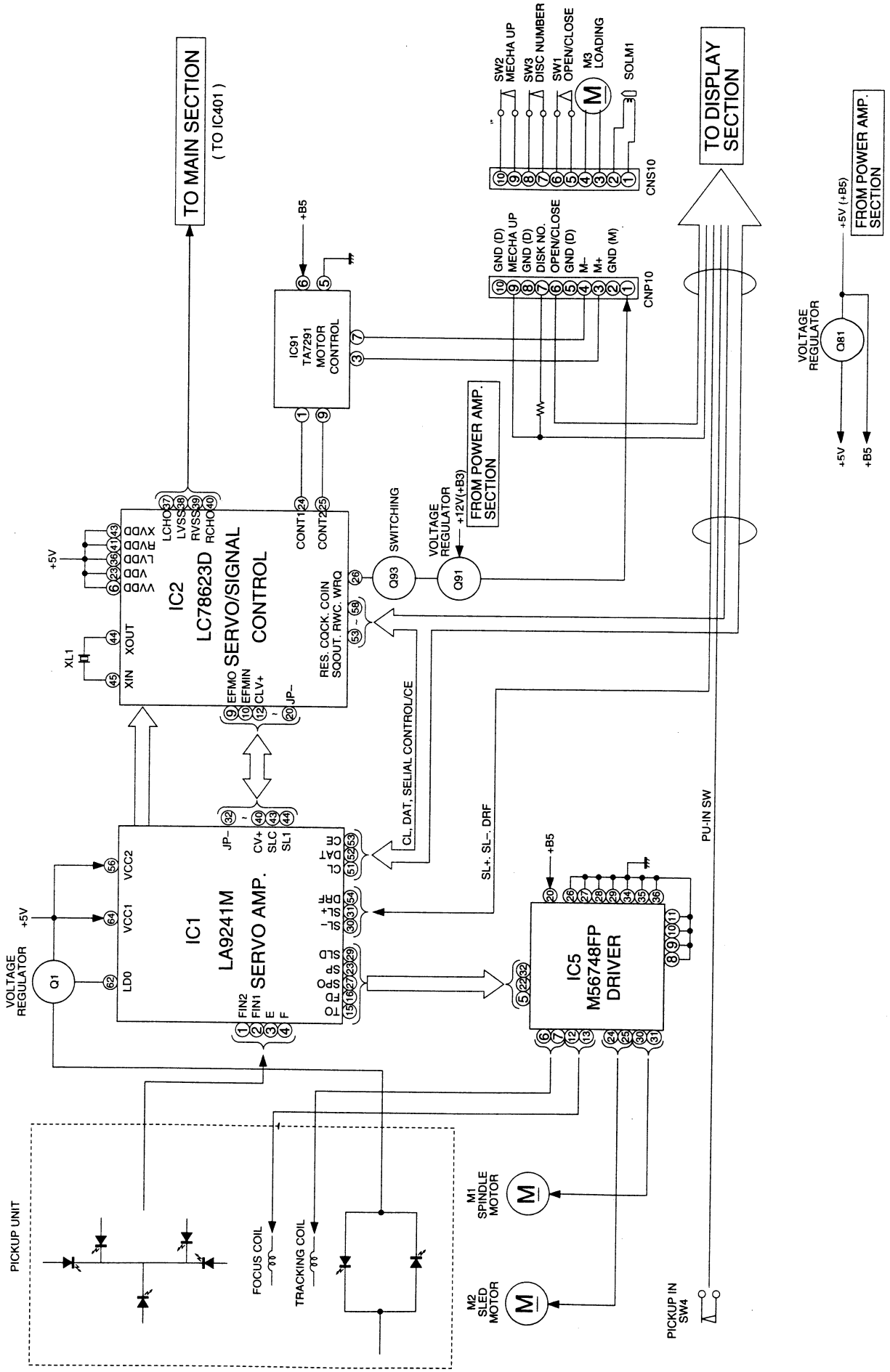


Figure 13 BLOCK DIAGRAM (1/3)

MC-Service

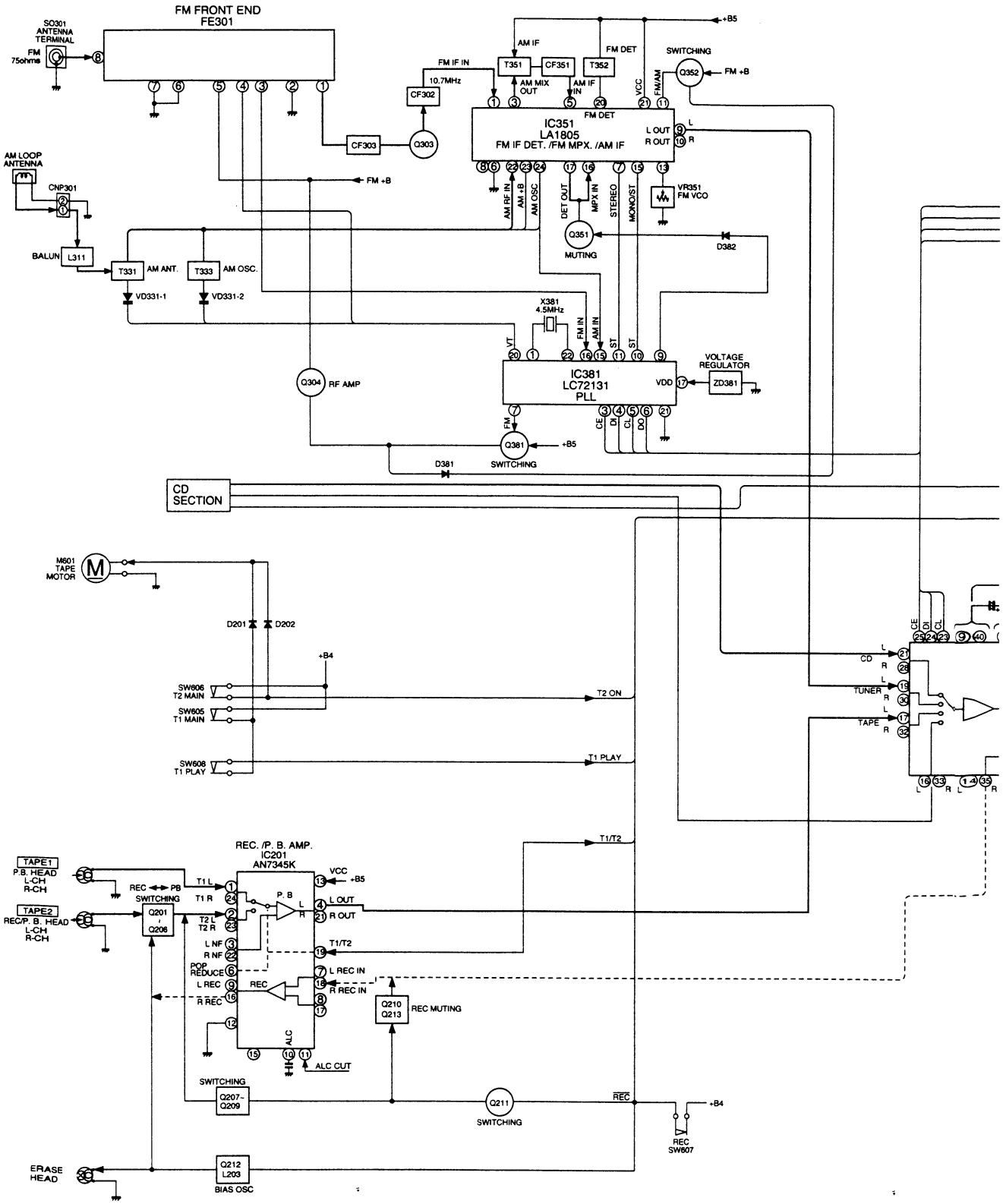
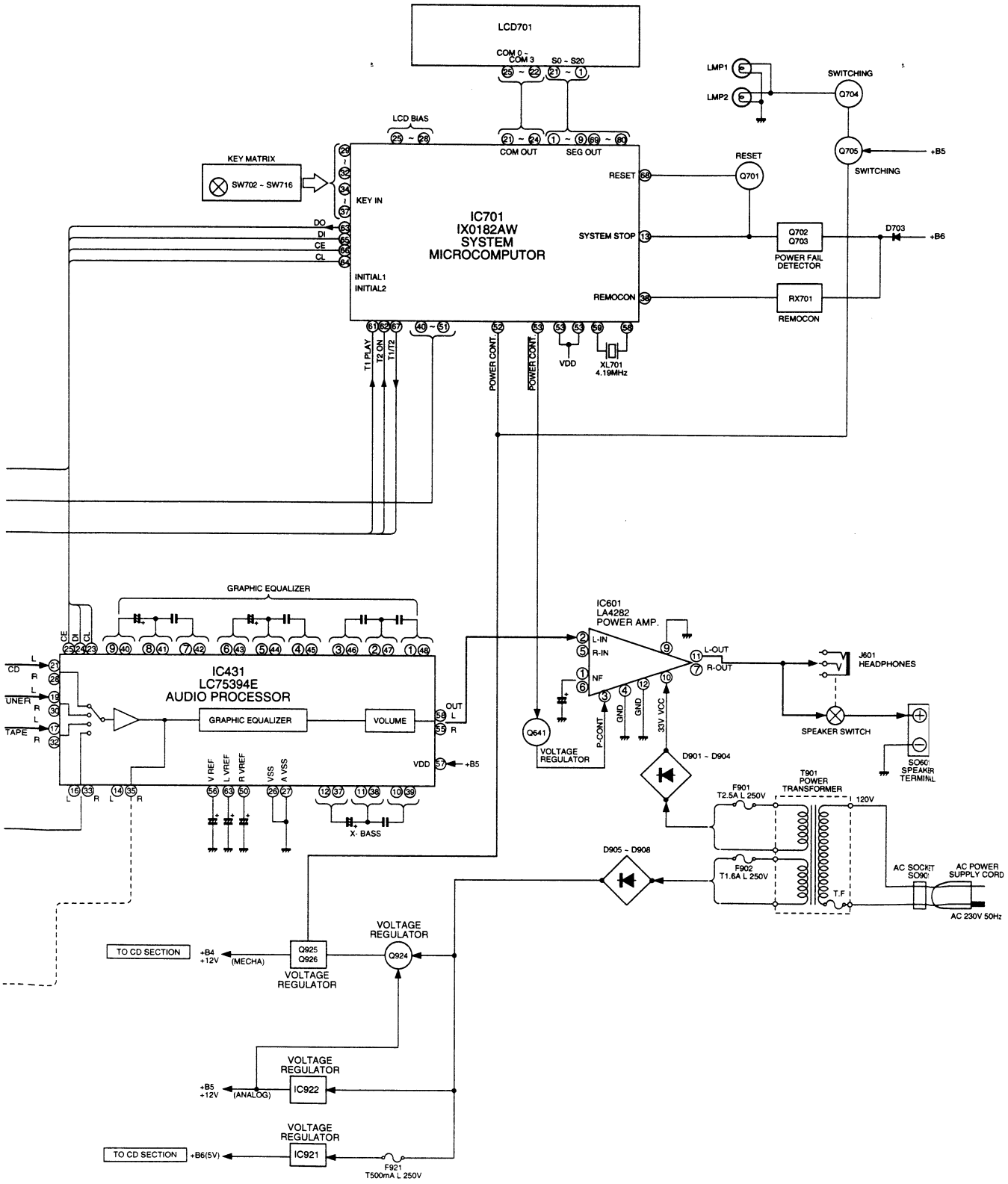
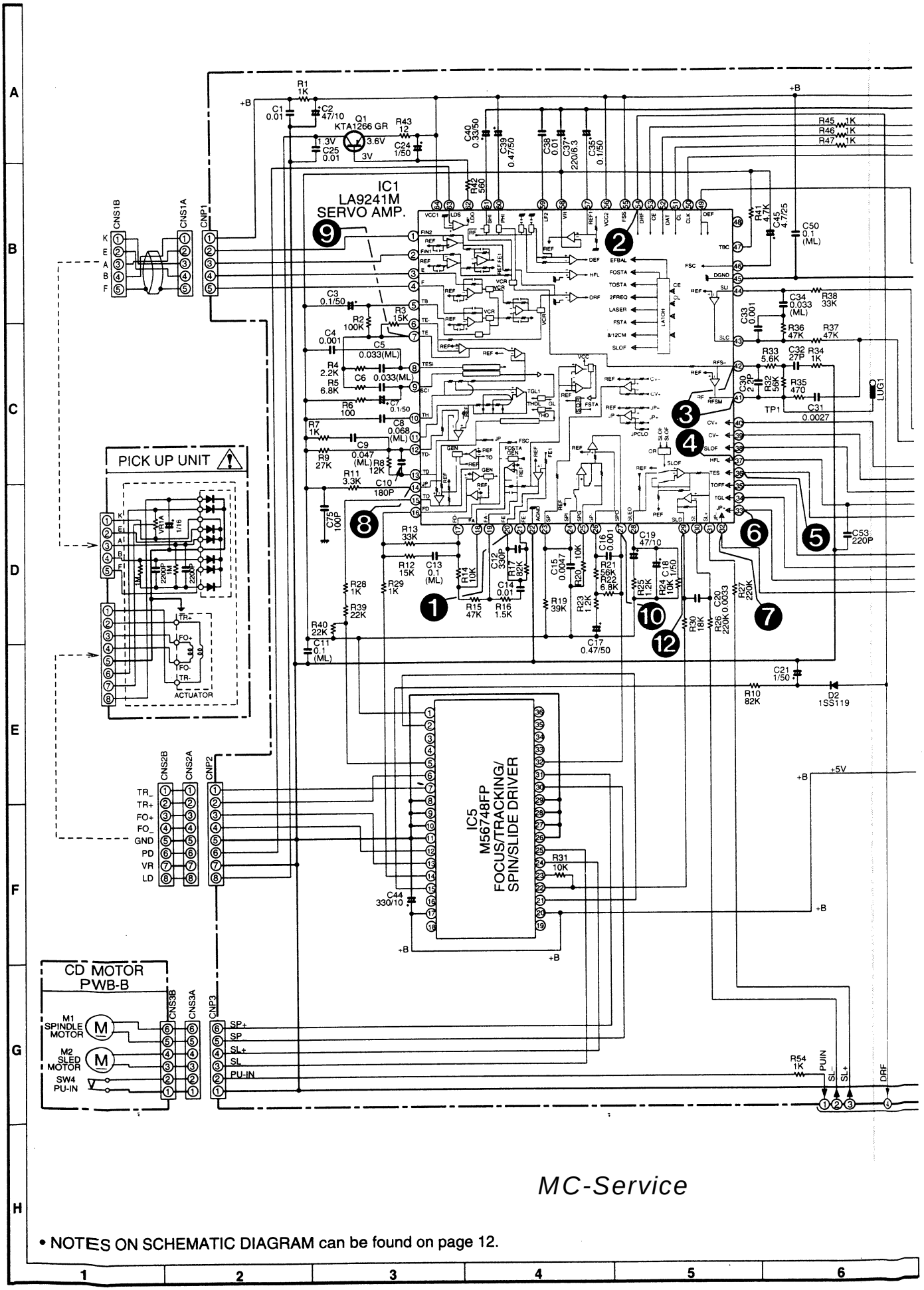


Figure 14 BLOCK DIAGRAM (2/3)



MC-Service

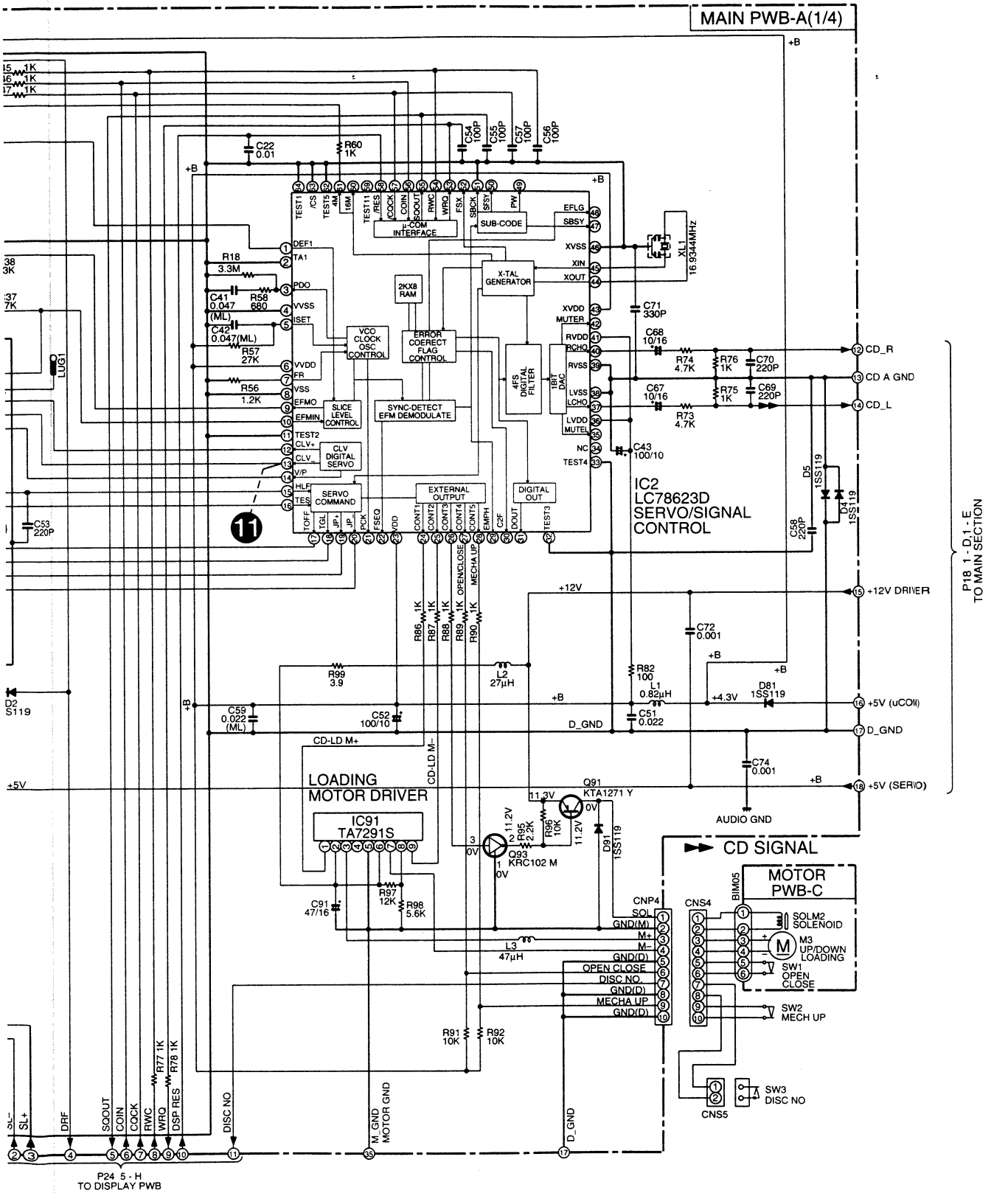
Figure 15 BLOCK DIAGRAM (3/3)



MC-Service

• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

Figure 16 SCHEMATIC DIAGRAM (1/9)

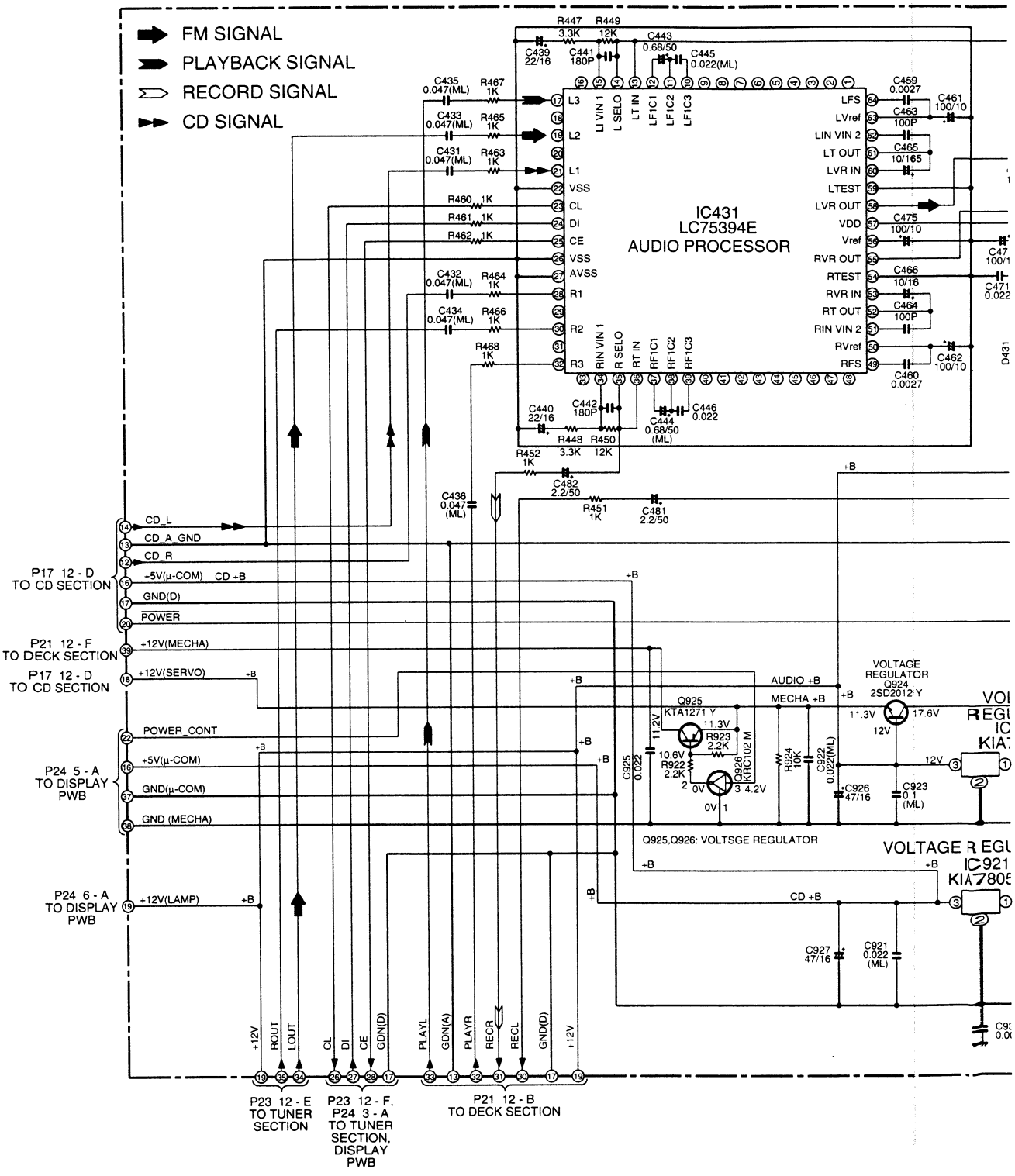


MC-Service

- The numbers ❶ to ⓬ are waveform numbers shown in page 29.

7	8	9	10	11	12

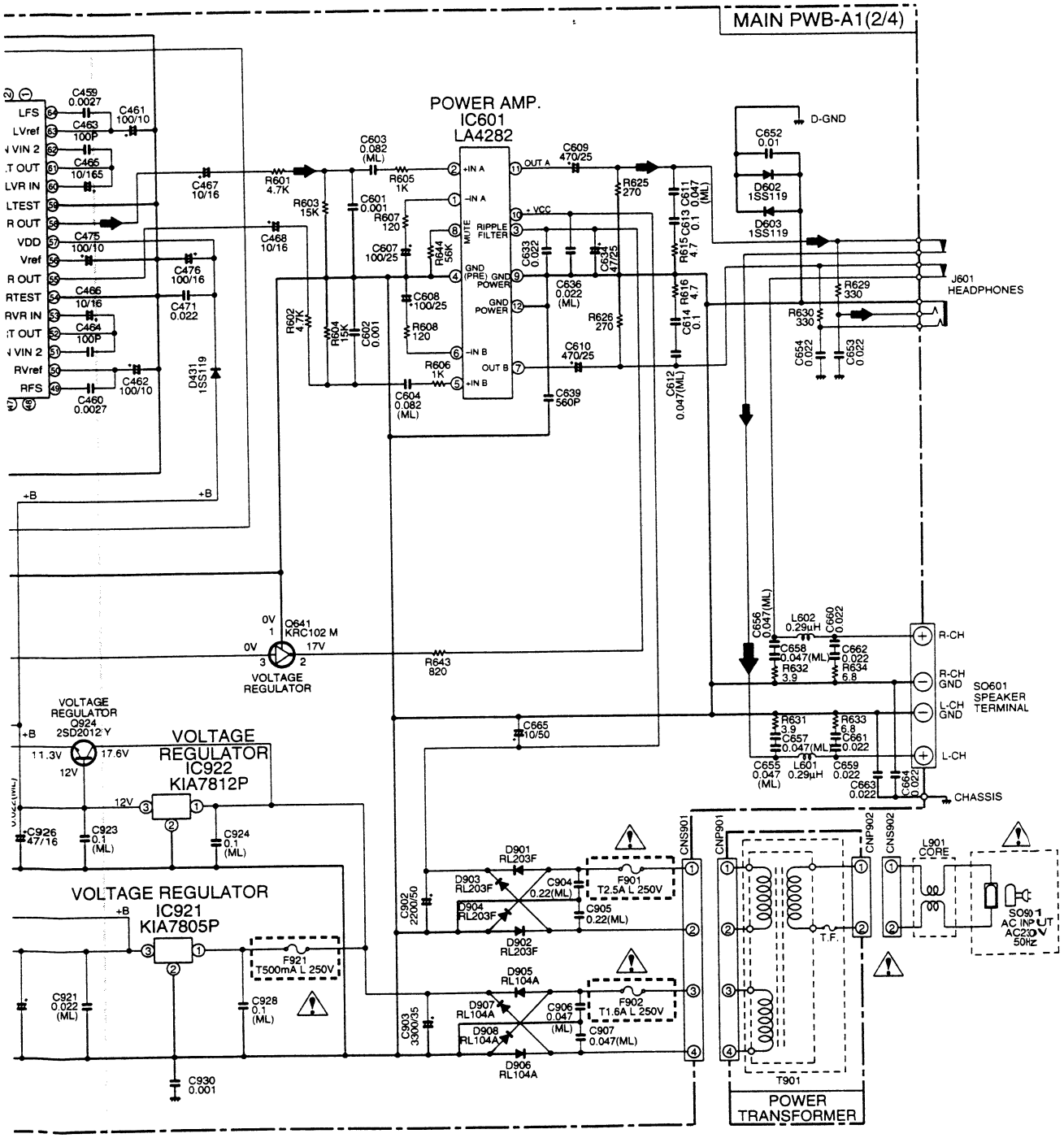
Figure 17 SCHEMATIC DIAGRAM (2/9)



MC-Service

• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

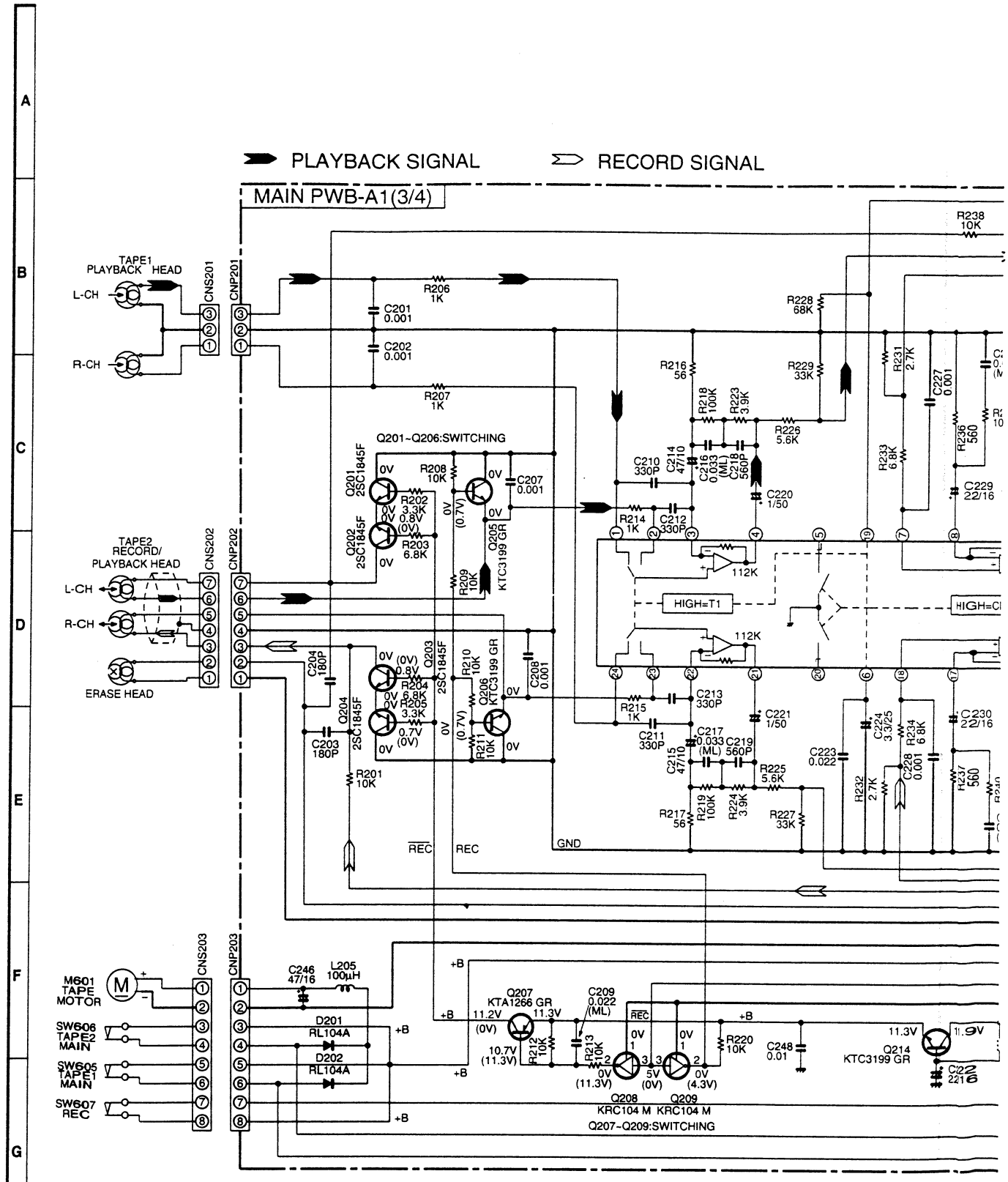
Figure 18 SCHEMATIC DIAGRAM (3/9)



MC-Service

7	8	9	10	11	12

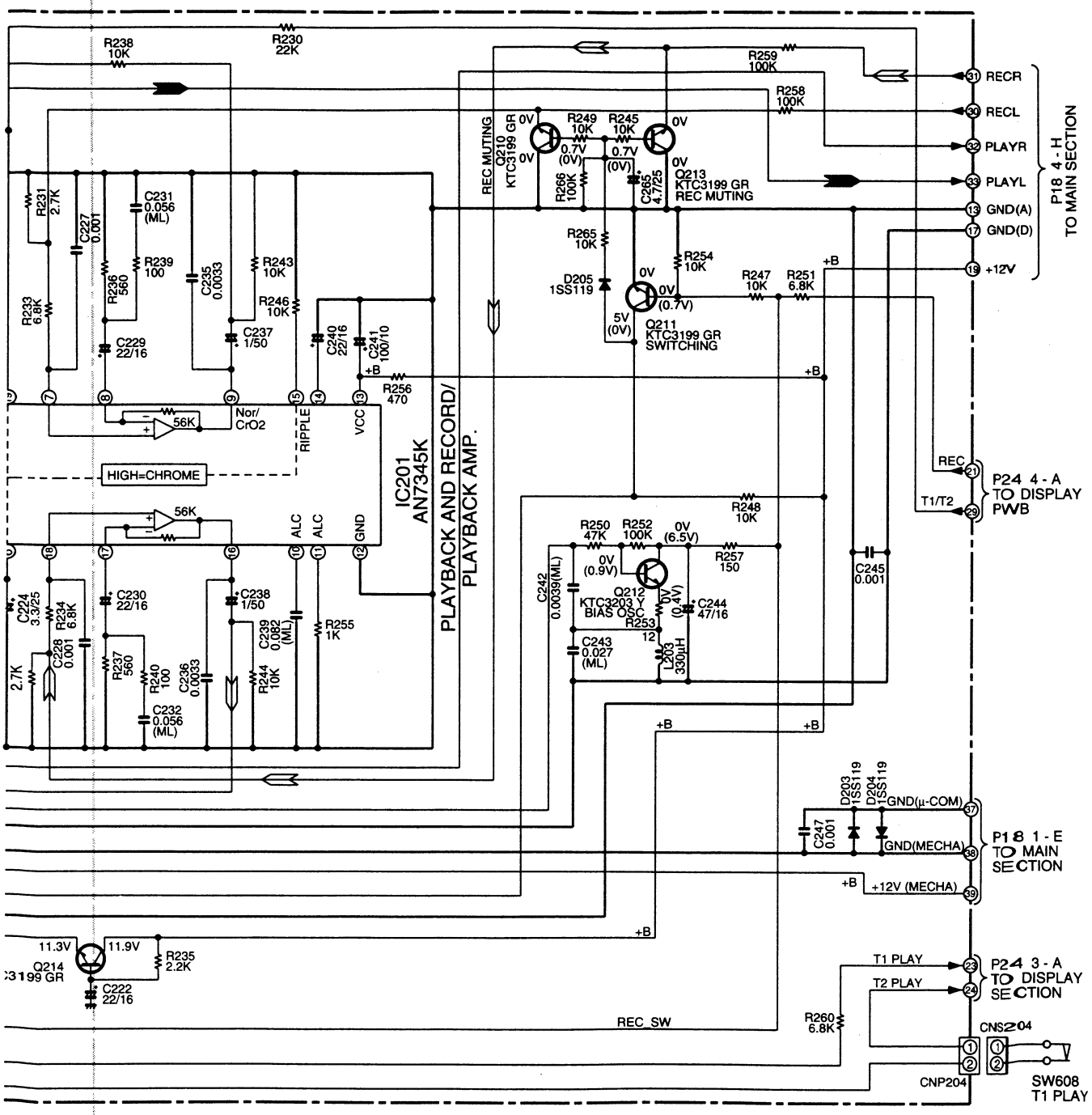
Figure 19 SCHEMATIC DIAGRAM (4/9)



MC-Service

• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

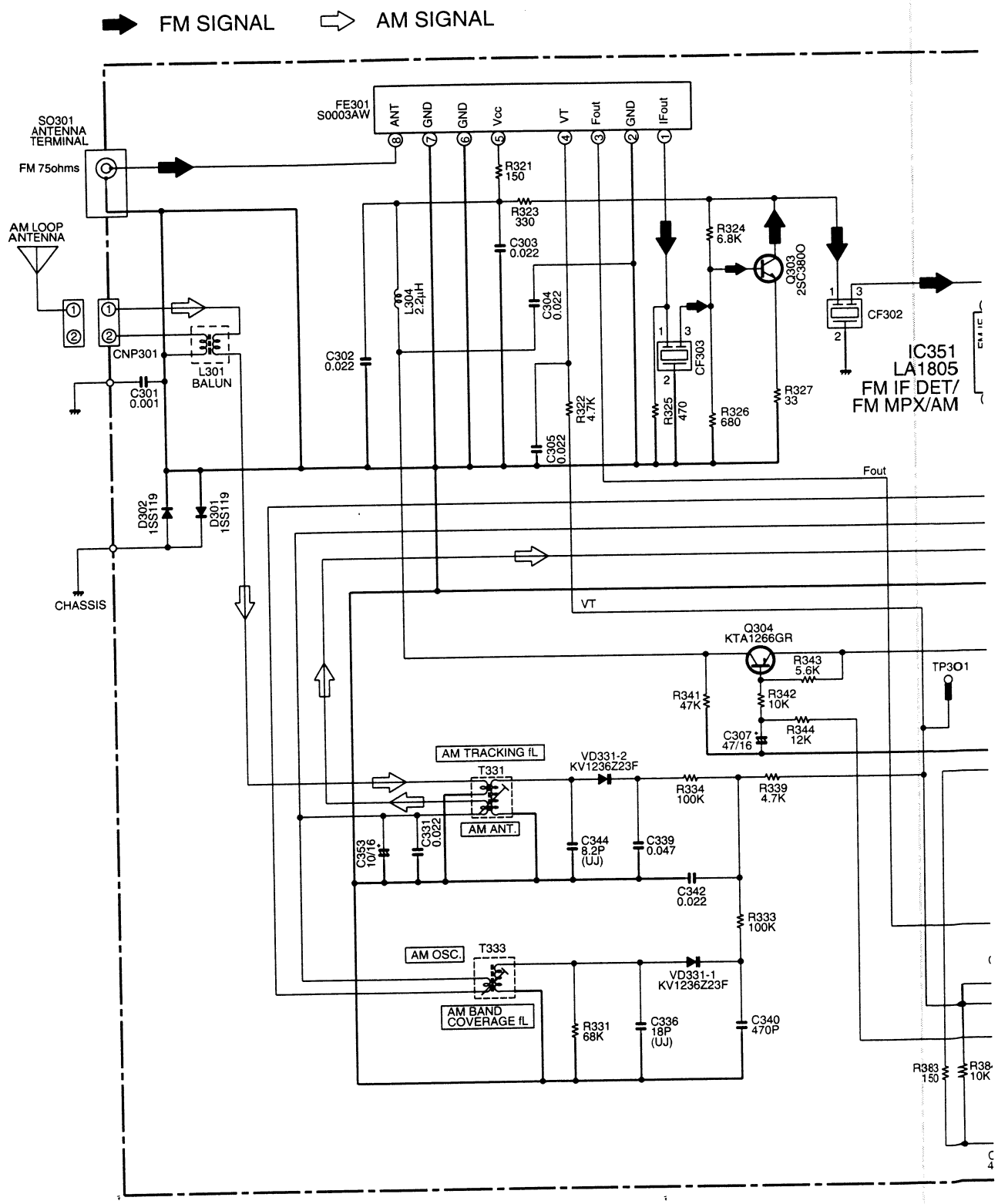
Figure 20 SCHEMATIC DIAGRAM (5/9)



MC-Service

7	8	9	10	11	12

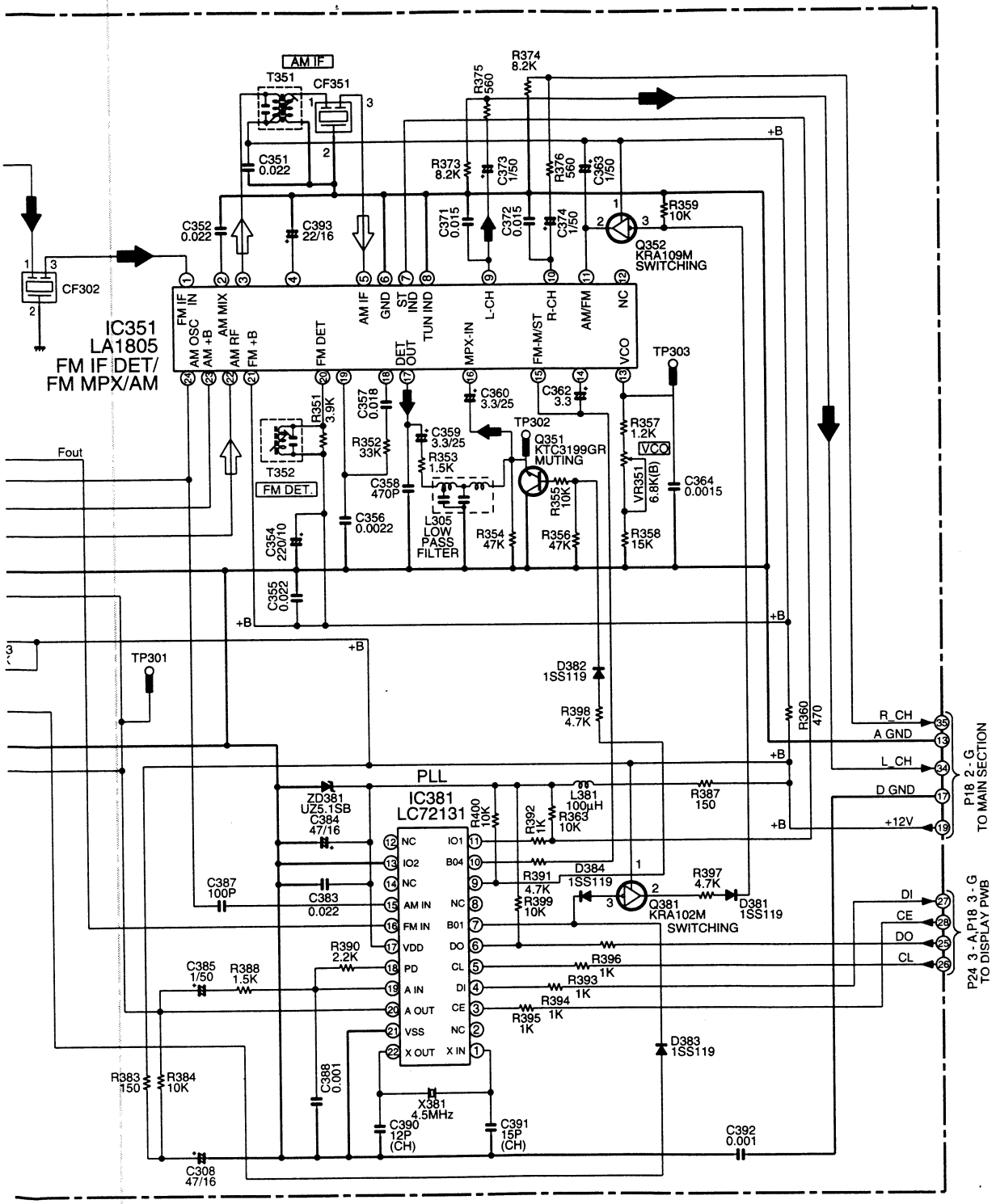
Figure 21 SCHEMATIC DIAGRAM (6/9)



MC-Service

• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

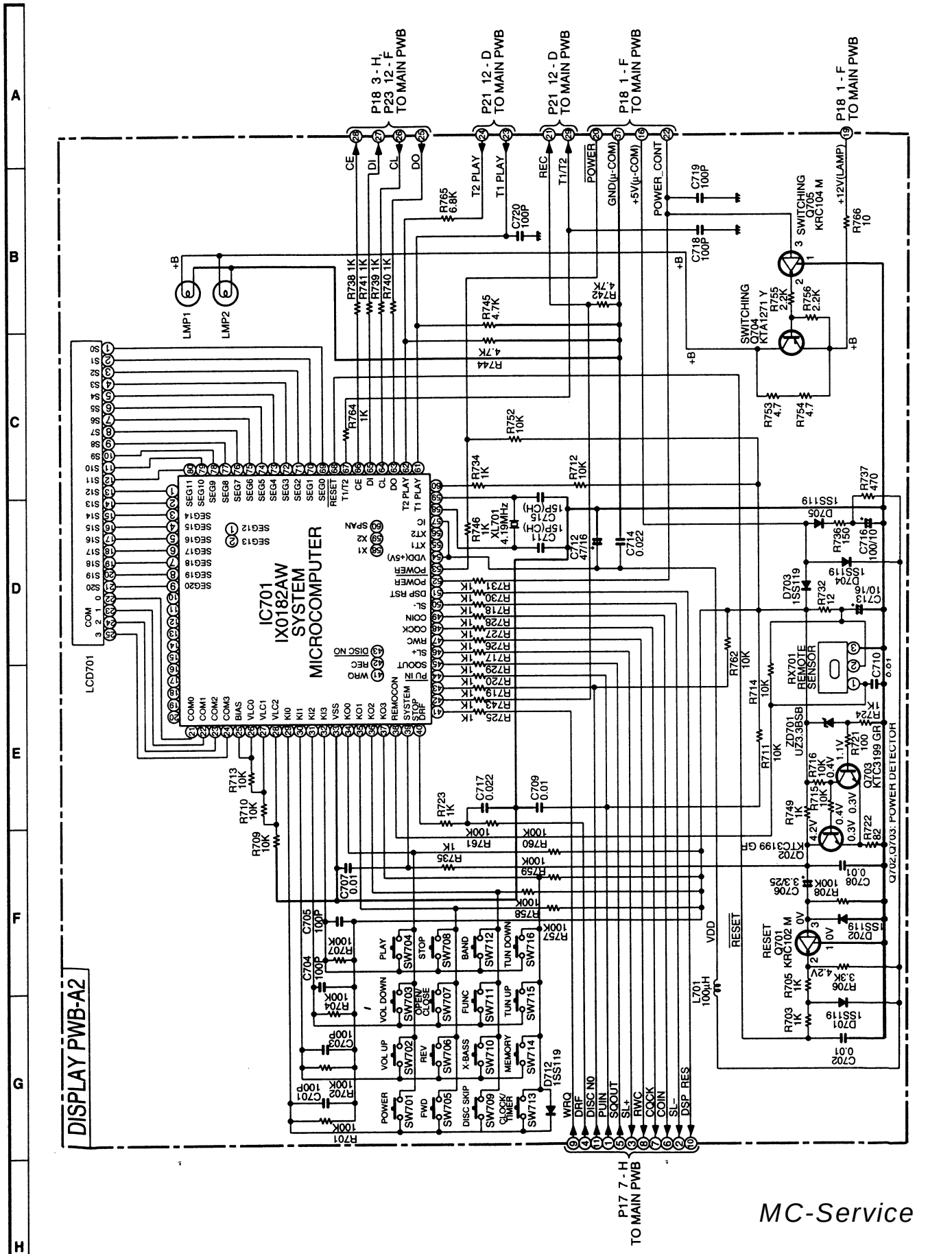
Figure 22 SCHEMATIC DIAGRAM (7/9)



MC-Service

7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (8/9)



MC-Service

• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

Figure 24 SCHEMATIC DIAGRAM (9/9)

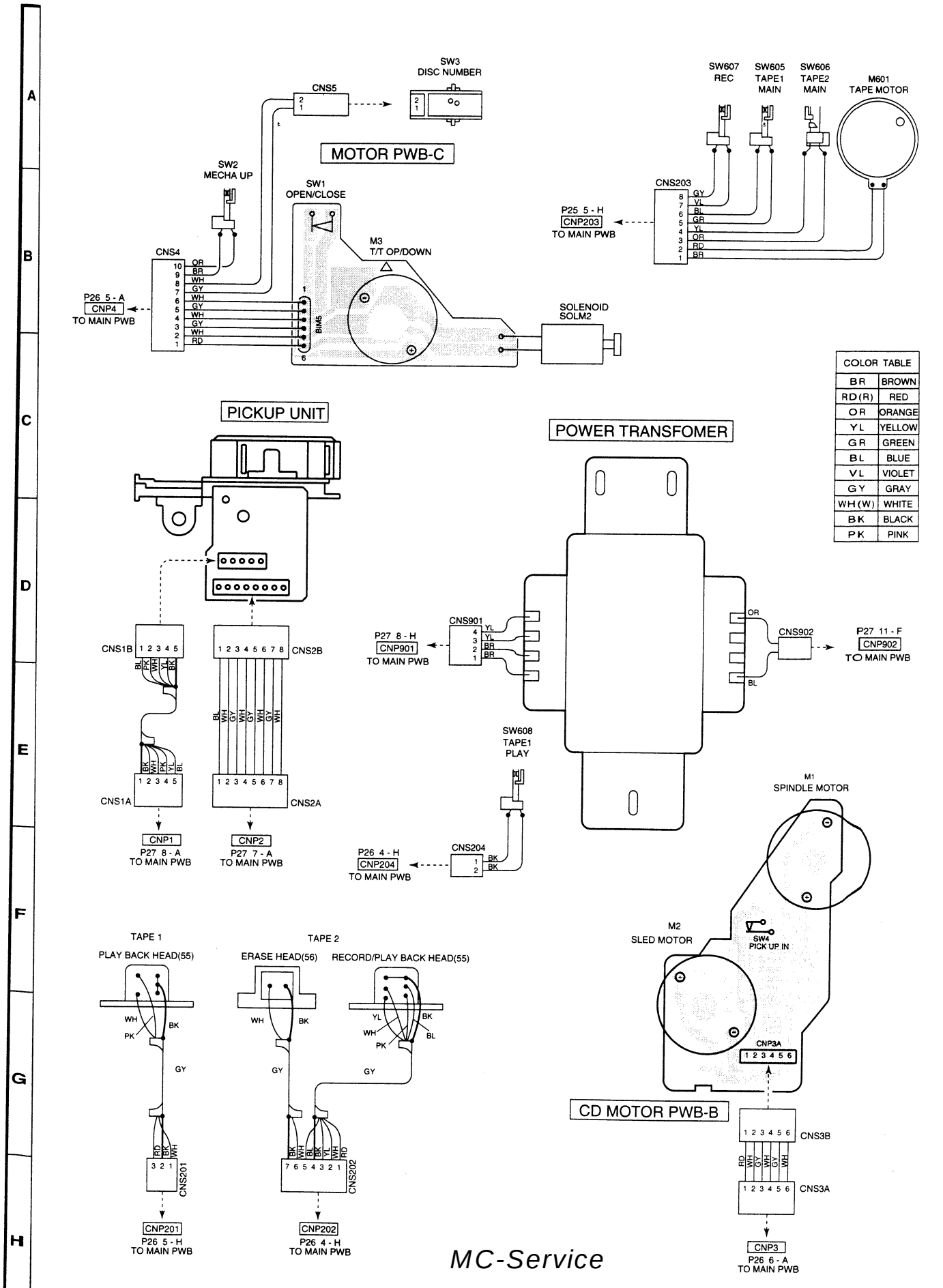
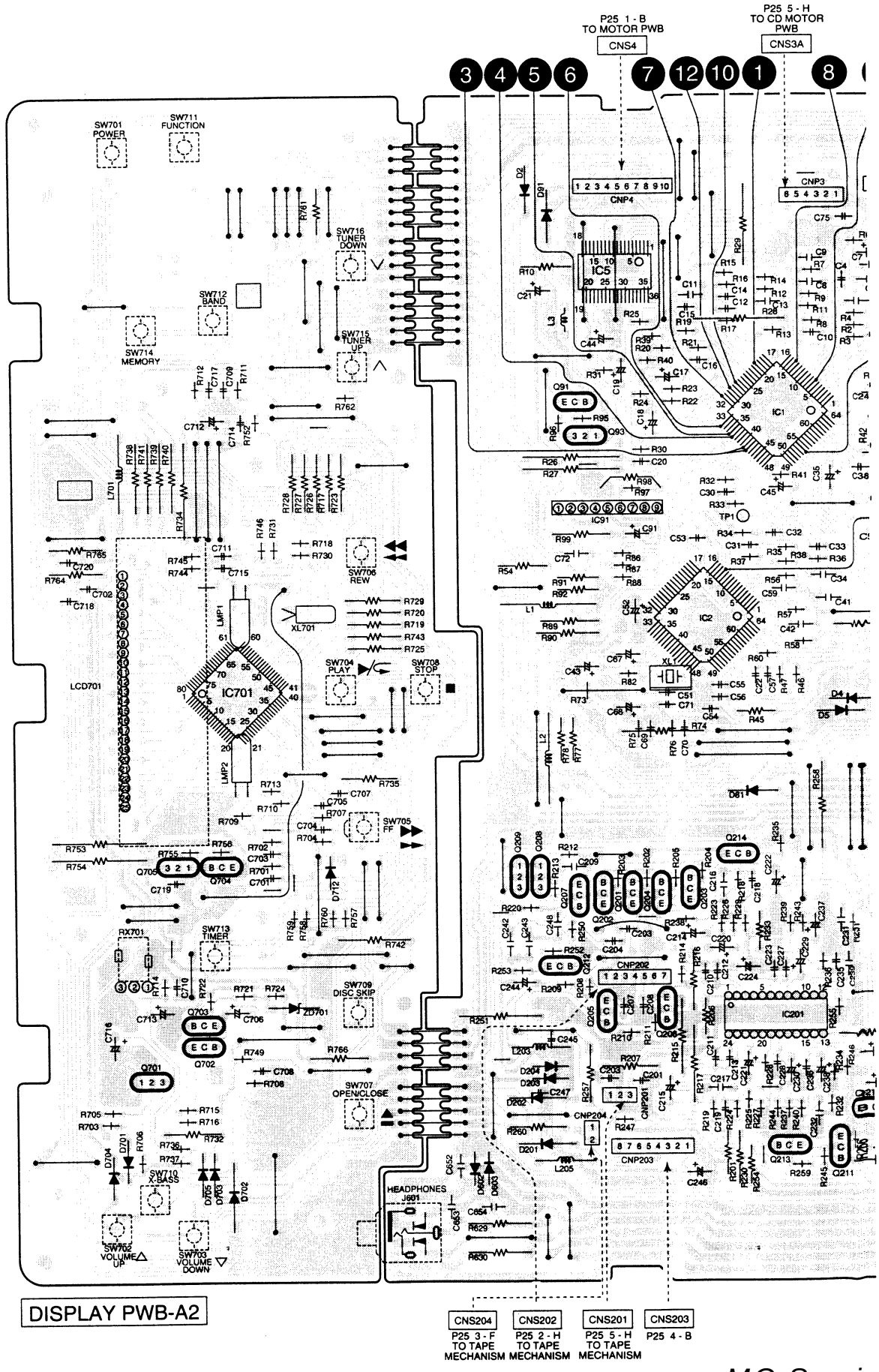


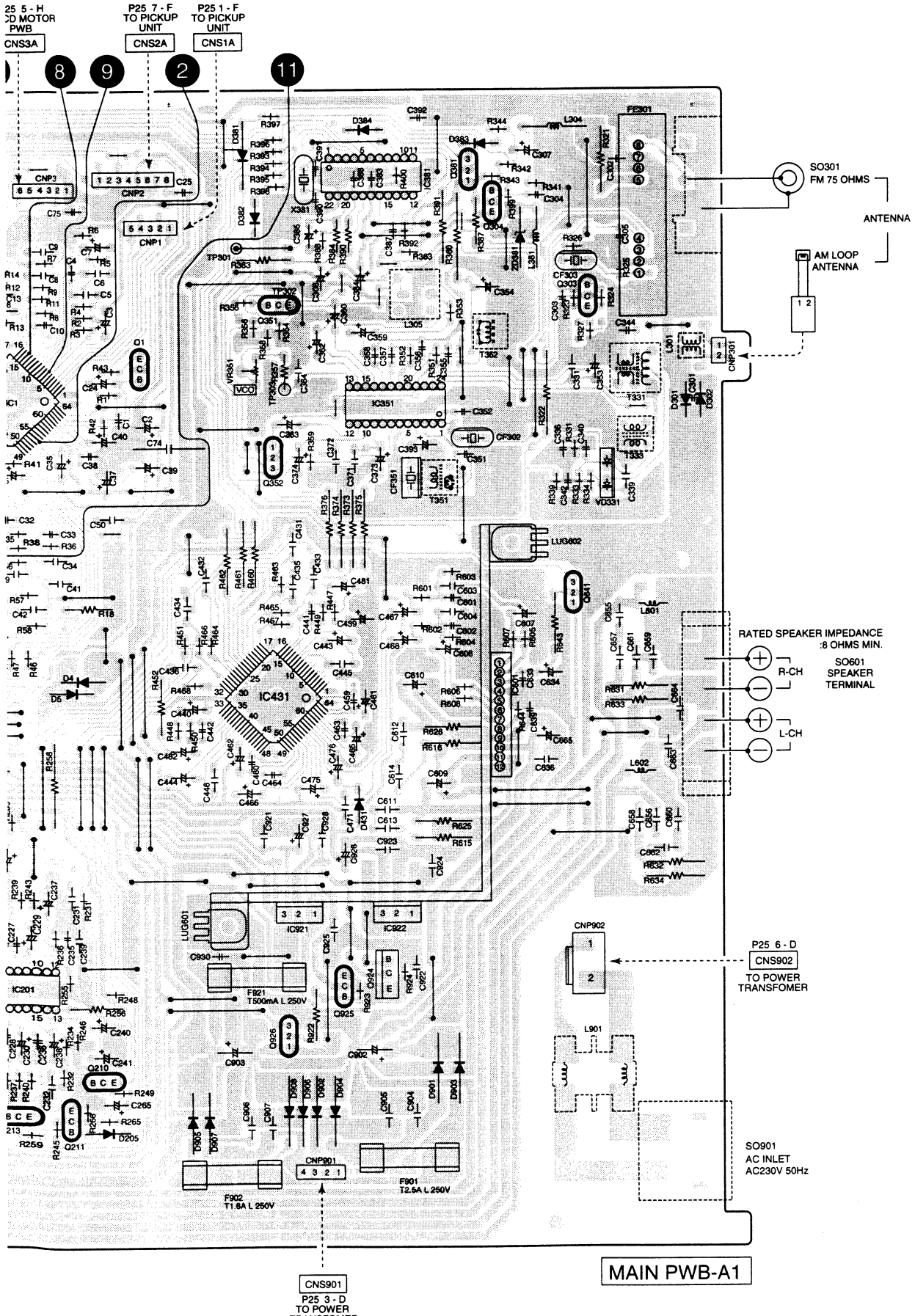
Figure 25 WIRING SIDE OF P.W.BOARD (1/3)



• The numbers ❶ to ⓬ are waveform numbers shown in page 29.

MC-Service

Figure 26 WIRING SIDE OF P.W.BOARD (2/3)



MC-Service

7	8	9	10	11	12

Figure 27 WIRING SIDE OF P.W.BOARD (3/3)

VOLTAGE

IC1	
PIN NO.	VOLTAGE
1	2.5V
2	2.5V
3	2.5V
4	2.5V
5	2.5V
6	2.5V
7	2.5V
8	2.5V
9	2.5V
10	2.5V
11	2.5V
12	2.5V
13	2.5V
14	2.5V
15	2.5V
16	2.5V
17	2.5V
18	2.5V
19	2.5V
20	2.5V
21	2.5V
22	0V
23	2.5V
24	2.5V
25	2.5V
26	2.5V
27	2.5V
28	2.5V
29	2.5V
30	2.5V
31	2.5V
32	0V
33	0V
34	0V
35	0V
36	0V
37	0V
38	0V
39	0V
40	0V
41	1.6V
42	2.5V
43	2.5V
44	2.5V
45	0V
46	2.5V
47	0V
48	0V
49	0V
50	2.5V
51	4V
52	4V
53	0V
54	0V
55	5V
56	5V
57	2.5V
58	2.5V
59	1V
60	1V
61	2.3V
62	5V
63	0V
64	5V

IC2	
PIN NO.	VOLTAGE
1	0V
2	0V
3	2.7V
4	0V
5	2.3V
6	5V
7	1V
8	0V
9	2.5V
10	2.5V
11	0V
12	0V
13	0V
14	5V
15	0V
16	0V
17	5V
18	5V
19	0V
20	0V
21	–
22	–
23	5V
24	0V
25	0V
26	0V
27	0V
28	0V
29	–
30	–
31	–
32	0V
33	0V
34	–
35	–
36	5V
37	2.5V
38	0V
39	0V
40	2.5V
41	4.9V
42	–
43	5V
44	1.9V
45	2.2V
46	0V
47	–
48	–
49	–
50	–
51	–
52	–
53	0V
54	0V
55	0V
56	4V
57	4V
58	0V
59	–
60	–
61	2.5V
62	0V
63	0V
64	0V

IC201	
PIN NO.	VOLTAGE
1	0V(0V)
2	0V(0V)
3	0.6V(0.6V)
4	2.7V(2.7V)
5	0V(0V)
6	0V(1.2V)
7	0V(0V)
8	0.6V(0.6V)
9	2.7V(2.7V)
10	2.7V(2.7V)
11	0V(0V)
12	0V(0V)
13	5.6V(5.6V)
14	3.4V(3.4V)
15	0V(0V)
16	2.7V(2.7V)
17	0.6V(0.6V)
18	0V(0V)
19	0V(0.8V)
20	0V(0V)
21	2.7V(2.7V)
22	0.6V(0.6V)
23	0V(0V)
24	0V(0V)

IC301	
PIN NO.	VOLTAGE
1	0.7V(0V)
2	1.5V(0V)
3	4.9V(0V)
4	1.5V(0V)
5	0V(0V)
6	4.9V(0V)
7	4V(0V)
8	4.7V(0V)
9	4.9V(0V)

IC351	
PIN NO.	VOLTAGE
1	1.7V(1.7V)
2	1.7V(1.7V)
3	5.5V(6.9V)
4	0.2V(0.8V)
5	1.7V(1.7V)
6	0V(0V)
7	5.5V(5.5V)
8	0V(0V)
9	2.4V(2.4V)
10	2.4V(2.4V)
11	4.8V(6.8V)
12	1V(1V)
13	1.1V(0V)
14	1.9V(1.7V)
15	1V(1.1V)
16	1.7V(1.7V)
17	1.7V(1.7V)
18	1.6V(1.6V)
19	0.4V(0.7V)
20	5.4V(6.8V)
21	5.4V(6.8V)
22	1.7V(1.7V)
23	1.7V(1.7V)
24	1.7V(1.7V)

IC381	
PIN NO.	VOLTAGE
1	2.7V(2.7V)
2	0V(0V)
3	0V(0V)
4	0V(4.7V)
5	0V(0V)
6	4.9V(4.9V)
7	0.2V(11.2V)
8	0V(0V)
9	0V(0V)
10	1V(0V)
11	5.5V(5.5V)
12	0V(0V)
13	0.3V(0.3V)
14	0V(0V)
15	0V(2.7V)
16	2.5V(0V)
17	5.2V(5.2V)
18	0V(1V)
19	0V(1V)
20	11.2V(10.6V)
21	0V(0V)
22	2.7V(2.7V)

IC431	
PIN NO.	VOLTAGE
1	5.6V
2	5.6V
3	5.6V
4	5.6V
5	5.6V
6	5.6V
7	5.6V
8	5.6V
9	5.6V
10	5.6V
11	5.6V
12	5.6V
13	5.6V
14	5.6V
15	5.6V
16	5.6V
17	5.6V
18	0V
19	5.6V
20	0V
21	5.6V
22	0V
23	0V
24	0V
25	0V
26	0V
27	0V
28	5.6V
29	0V
30	5.6V
31	0V
32	5.6V
33	5.6V
34	5.6V
35	5.6V
36	5.6V
37	5.6V
38	5.6V
39	5.6V
40	5.6V
41	5.6V
42	5.6V
43	5.6V
44	5.6V
45	5.6V
46	5.6V
47	5.6V
48	5.6V
49	5.6V
50	5.6V
51	5.6V
52	0V
53	5.6V
54	0V
55	5.6V
56	5.6V
57	11.3V
58	5.6V
59	0V
60	5.6V
61	0V
62	5.6V
63	5.6V
64	5.6V

IC5	
PIN NO.	VOLTAGE
1	2.2V
2	2V
3	–
4	–
5	2.2V
6	2.2V
7	2.2V
8	0V
9	0V
10	0V
11	0V
12	2.2V
13	2.2V
14	2.2V
15	2.2V
16	–
17	5V
18	–
19	–
20	5V
21	2.2V
22	2.2V
23	2.2V
24	2.2V
25	2.2V
26	0V
27	0V
28	0V
29	0V
30	2.2V
31	2.2V
32	2.2V
33	–
34	–
35	–
36	–

IC601	
PIN NO.	VOLTAGE
1	1.1V
2	0.7V
3	17V
4	0V
5	0.7V
6	1.1V
7	17V
8	0.2V
9	0V
10	34V
11	17V
12	0V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	2.2V	41	0V
2	2.2V	42	0V
3	2.2V	43	4.3V
4	2.2V	44	4.3V
5	2.2V	45	0V
6	2.2V	46	2.2V
7	2.2V	47	0V
8	2.2V	48	3.7V
9	2.2V	49	3.7V
10	2.2V	50	2.2V
11	2.2V	51	0V
12	2.2V	52	4.2V
13	2.2V	53	0V
14	2.2V	54	4.3V
15	2.2V	55	–
16	2.2V	56	–
17	2.2V	57	4.3V
18	2.2V	58	2.2V
19	2.2V	59	1.8V
20	2.2V	60	4.2V
21	2.2V	61	4.2V
22	2.2V	62	4.3V
23	2.2V	63	4.3V
24	2.2V	64	0V
25	4.3V	65	0V
26	4.3V	66	0V
27	3V	67	V
28	1.5V	68	4.2V
29	4.3V	69	2.2V
30	4.3V	70	2.2V
31	4.3V	71	2.2V
32	4.3V	72	2.2V
33	0V	73	2.2V
34	4.3V	74	2.2V
35	4.3V	75	2.2V
36	4.3V	76	2.2V
37	4.3V	77	2.2V
38	4.3V	78	2.2V
39	4V	79	2.2V
40	4V	80	2.2V

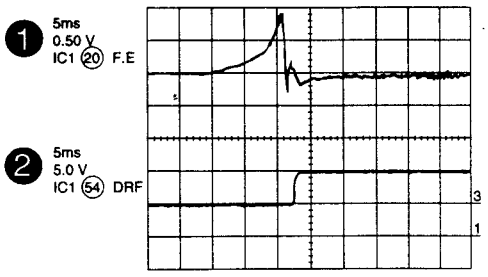
IC91	
PIN NO.	VOLTAGE
1	2.2V
2	11.2V
3	0V
4	–
5	0V
6	11.2V
7	0V
8	4.2V
9	2.2V

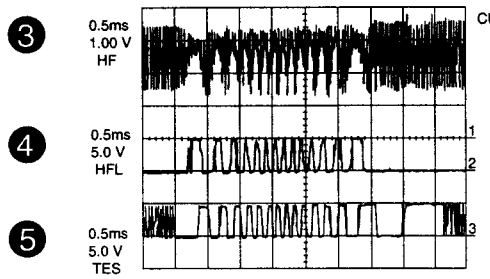
IC921	
PIN NO.	VOLTAGE
1	17.6V
2	0V
3	5V

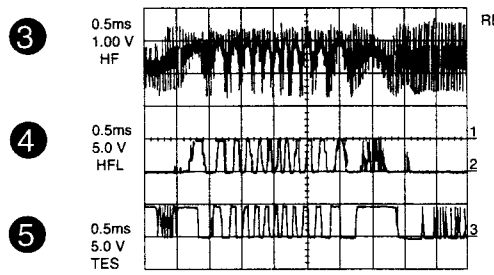
IC922	
PIN NO.	VOLTAGE
1	17.6V
2	0V
3	12V

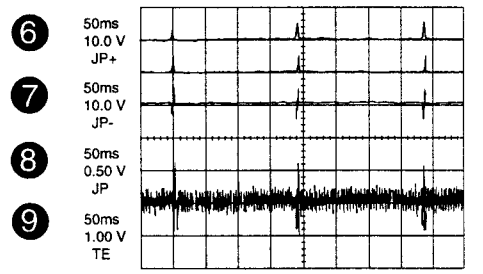
WAVEFORMS OF CD CIRCUIT

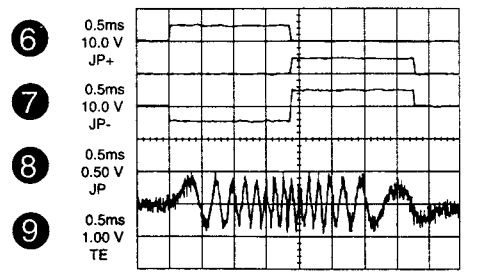
STOP → PLAY
FOCUS — SERCH

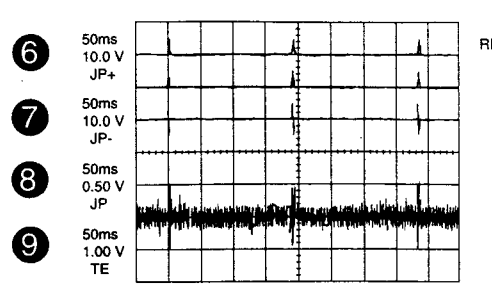


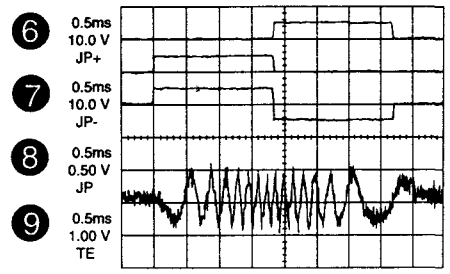




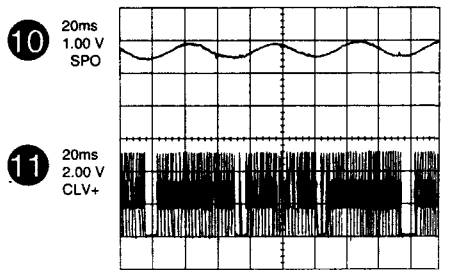




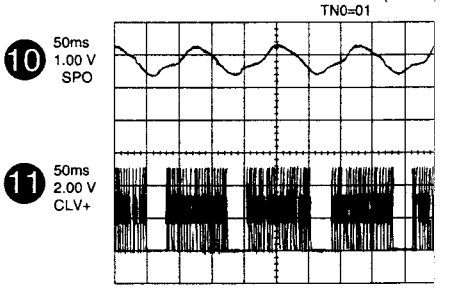




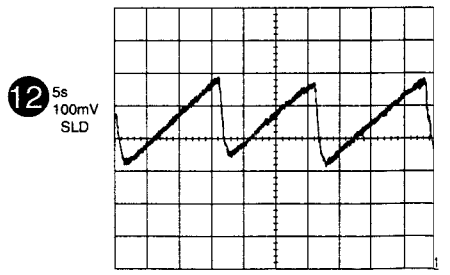
PLAY
NORMAL DISC
TN0=01

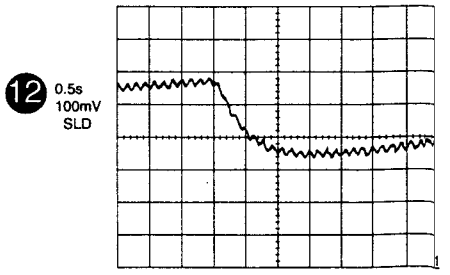


PLAY
TCD-712 (140mm)
TN0=01



PLAY
TCD-712





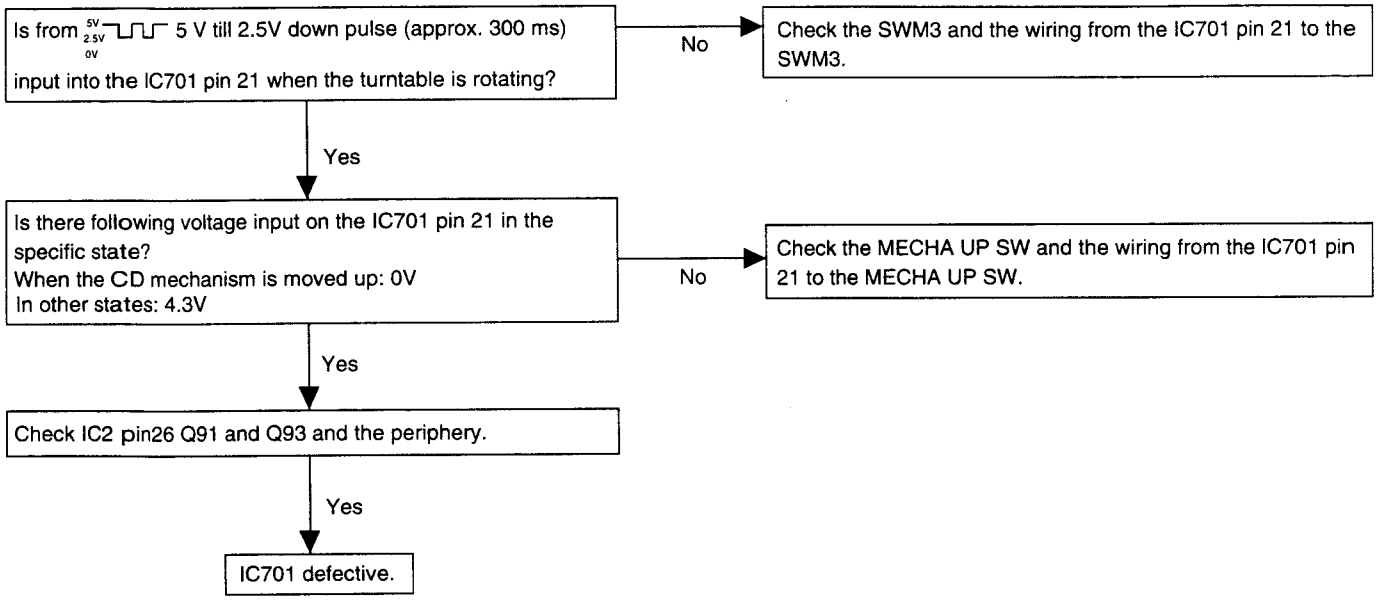
TROUBLESHOOTING (CD SECTION)

When the CD does not function

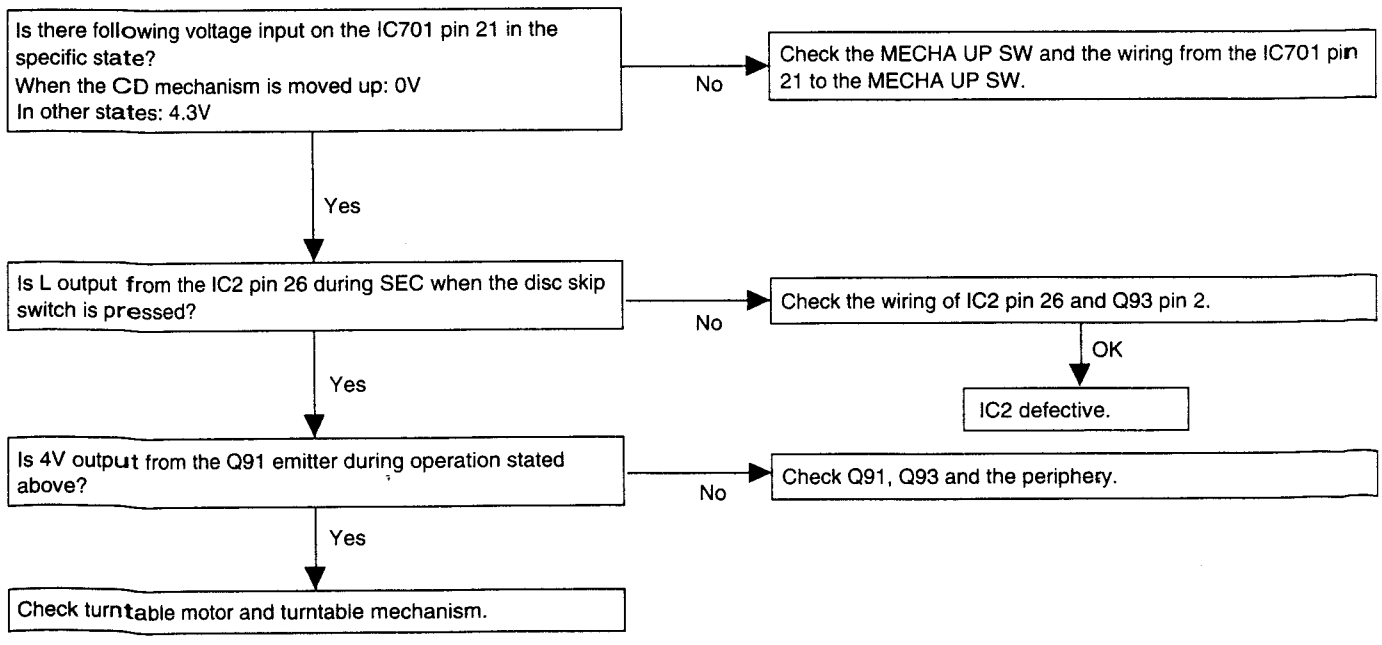
When the CD section does not operate When the objective lens of the optical pickup is dirty,this section may not operate.Clean the objective lens,and check the playback operation.When this section does not operate even after the above step is taken,check the following items.
Remove the cabinet and follow the troubleshooting instructions.
"Track skipping and/or no TOC(Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.

• When the turntable fails to stop.


Is from 5V 2.5V 0V 5 V till 2.5V down pulse (approx. 300 ms) input into the IC701 pin 21 when the turntable is rotating?
No
Check the SWM3 and the wiring from the IC701 pin 21 to the SWM3.
Yes
Is there following voltage input on the IC701 pin 21 in the specific state?
When the CD mechanism is moved up: 0V
In other states: 4.3V
No
Check the MECHA UP SW and the wiring from the IC701 pin 21 to the MECHA UP SW.
Yes
Check IC2 pin26 Q91 and Q93 and the periphery.
Yes
IC701 defective.

• When turntable fails to move.


Is there following voltage input on the IC701 pin 21 in the specific state?
When the CD mechanism is moved up: 0V
In other states: 4.3V
No
Check the MECHA UP SW and the wiring from the IC701 pin 21 to the MECHA UP SW.
Yes
Is L output from the IC2 pin 26 during SEC when the disc skip switch is pressed?
No
Check the wiring of IC2 pin 26 and Q93 pin 2.
OK
IC2 defective.
Yes
Is 4V output from the Q91 emitter during operation stated above?
No
Check Q91, Q93 and the periphery.
Yes
Check turntable motor and turntable mechanism.

• When the CD tray fails to open or close.

Is there following voltage input in specific state of IC701 pin 19?
Open state: 0V
Close state: 0V
Intermediate state between open state and close state: 4.3V

No → Check the OPEN CLOSE SW and the wiring from the IC701 pin 19 to the OPEN CLOSE SW.

Yes ↓

Is H output to IC2 pin 24 or 25 for 7 seconds when the OPEN/CLOSE key is pressed?IC91 is defective. Replace it.

No → Check the wiring of the IC2 pins 24 and 25, IC91 pins 1 and 3.

OK ↓

IC2 defective.

Yes ↓

Is 4V output between IC91 pins 3 and 7 during operation stated above?

No → Check the periphery of IC91.

OK ↓

IC91 defective.

Yes ↓

Check the loading motor (M1) and the loading mechanism.

• The CD function will not work.

The CD operating keys don't work.

Yes ↓

Check the CD, DSP, power supply, and 16.93 MHz clock, and reset terminal.

Yes ↓

Check the waveform of SCK, SO (DATA) and SI (COMM).

Yes ↓

See if the pick-up is in the pick-up in PICKUP IN SW position.

Yes ↓

If the items mentioned above are OK, check the main microcomputer IC701.

• The CD operating keys work.

Check the Focus - HF system.

Playback can be performed without a disc.

Yes ↓

Does the pick-up move up and down twice?

Yes → Focus search OK

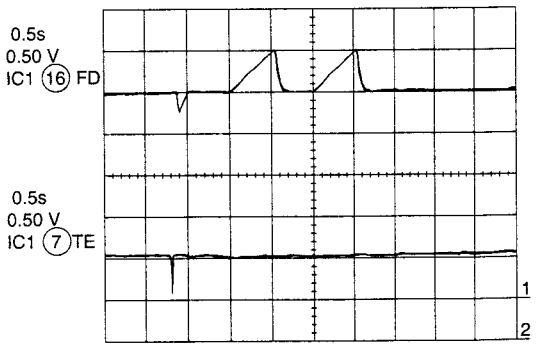
No ↓

Does the output waveform of IC1(16)(FD) match that shown in Fig. 31?

Yes → Check the area around IC5-CNP2.

No ↓

Check the IC1(50)(CLK) line, 4MHz.
Check the microcomputer data on pins (51)(CL), (52)(DAT) and (53)CE.



Focus search is performed two times when play operation is done without disc.

Figure 31

• Playback can only be performed when a disc is loaded.

Is the Focus servo active? (Can you hear it working?)
- No → Check the laser diode driver. Check the area around IC1(16) - (21) (focus servo circuit).
- Yes ↓

Does the DRF signal change from "L" to "H"?
- No → If the disc is not turning, the DRF should not change to "H". → Yes → Check the spin system.
- Yes ↓

Is HF waveform normal (see the Fig. 32-1, 2)?
- No → Level is abnormal. → Yes → Check the periphery of IC1 pins 41 and 42.
- No → Waveform is unstable. → Yes → Check the spin system.
- Yes ↓

Check the tracking system.

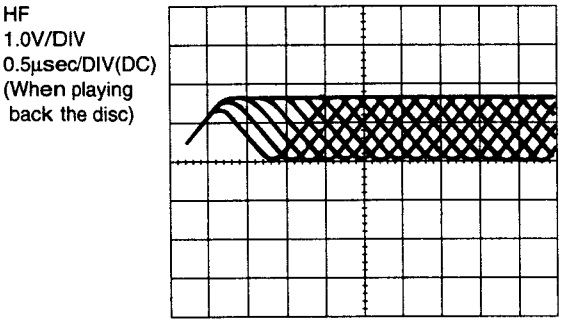


Figure 32-1

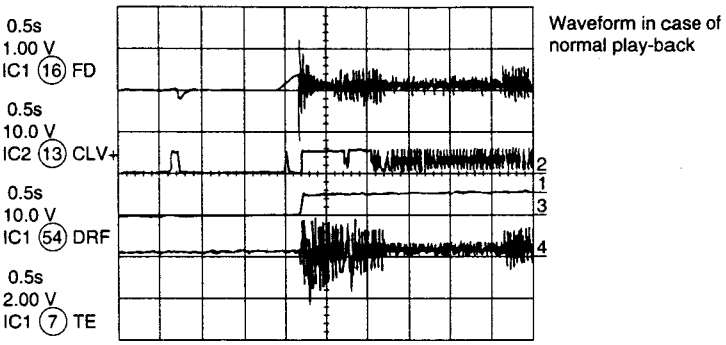


Figure 32-2

• Check the tracking system.

Check waveform of IC1 pin 7 (TE).
- The waveform shown in Fig. 32-3 appears, and no-disc state appears soon. → Yes → Tracking servo is inoperative. → Yes → Check the periphery of IC 1 pin 8 to pin 15, and IC 5 to CNP2.
- Play is possible in TEST mode. → Yes → Although IL is possible, play is impossible. → Yes → Normal jump is impeded, and the program top cannot be reached. → Yes → Check the periphery of IC 1 pin 14.
- Data cannot be read. → Yes → Check the VCO-PLL system.

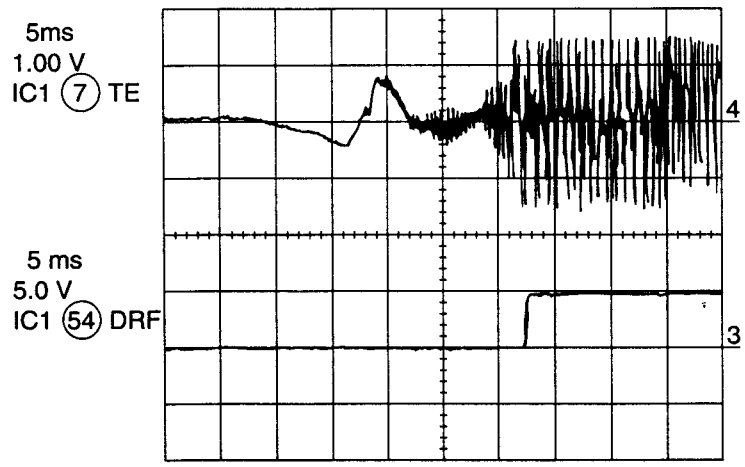


Figure 32-3

• Checking the spin system.

Play operation is performed without disc.

↓ Yes

The turntable rotates a little. → Yes → The spin driver circuit is normal.

↓ No

The turntable fails to rotate or rotates at high speed. → Yes → Check the periphery of IC1 pins 23 to 27, pin 39, and pin 40, IC2 pin 12 and pin 13, IC5 to CNP3.

• Checking the VCO-PLL system

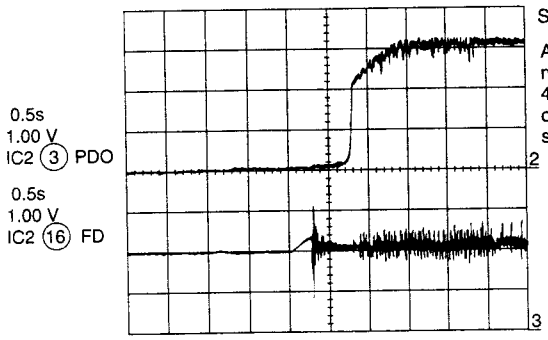
Play operation is performed when disc exits.

↓ Yes

Although HF waveform is normal, TOC data cannot be read. → Yes → Check PDO waveform (Fig. 33).

↓ Abnormal

Check the IC1 pins 43 and 44, IC2 pins 3, 5, 7, 10, and 11.



Stop --> Play

As VCO frequency is locked at 4.32 M Hz, voltage of PDO rises and stabili- zes.

Figure 33

• Although HF waveform is normal and the time indication is normal, no sound is emitted.

Check IC 2 pin 48 (EFLG). → No → Usually, the number of pulses of flawless disc is 100 pulses/sec or less.

↓ Yes

Check IC2 pins 37, 40.

↓ Abnomal

Check IC 401 and POWER AMP IC 801.

FUNCTION TABLE OF IC

IC2 VHiLC78623D-1:Servo/Signal Control(LC78623D) (1/2)

Pin No.	Terminal Name	Input/Output	Function
1	DEFI	Input	Input terminal of defect detection signal (DEF). (Connected to OV when not used.)
2	TAI	Input	For PLL: Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.
3	PDO	Output	Output terminal of phase comparison for external VCO control.
4	VVSS	—	Ground terminal for integrated VCO. Surely connected to 0V.
5	ISET	Input	Resistance connection terminal for current adjustment of PDO output.
6	VVDD	—	Power terminal for integrated VCO.
7	FR	Input	VCO frequency range adjustment.
8	VSS	—	Ground terminal of digital system. Surely connected to 0V.
9	EFMO	Output	For slice level control: EFM signal output terminal.
10	EFMIN	Input	EFM signal input terminal.
11	TEST2	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.
12	CLV+	Outout	Output for disk motor control. 3 values can be output with the commands.
13	CLV-	Output	Output for disk motor control. 3 values can be output with the commands.
14	V/P	Output	Monitor output terminal for automatic switch of rough servo/phase control. "H" for rough servo, and "L" for phase servo.
15	HFL	Intput	Input terminal of track detection signal. Schmit input.
16	TES	Input	Input terminal of tracking error signal. Schmit input.
17	TOFF	Output	Tracking OFF output terminal.
18	TGL	Output	Output terminal for switch of tracking gain "L" increases the gain.
19	JP+	Output	Output for track jump control. 3 values can be output with the commands.
20	JP-	Output	Output for track jump control. 3 values can be output with the commands.
21*	PCK	Output	Clock monitor terminal for EFM data replay. 4,3218MHz as the phase clock.
22*	FSEQ	Output	Output terminal synchronous signal detection. "H" is output when synchronous signal detected by EFM signal matches synchronous signal internally generated.
23	VDD	—	Power terminal of digital system.
24	CONT1	Input/Output	General purpose input/output terminal 1 — Controlled with serial data command from micro computer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.
25	CONT2	Input/Output	General purpose input/output terminal 2
26	CONT3	Input/Output	General purpose input/output terminal 3
27	CONT4	Input/Output	General purpose input/output terminal 4
28	CONT5	Input/Output	General purpose input/output terminal 5
29*	EMPH	Output	Difference monitor terminal At "H", deemphasis disk is being replayed.
30*	C2F	Output	C2 flag output terminal.
31*	DOUT	Output	Output terminal of digital OUTPUT. (EIAJ format)
32	TEST3	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.
33	TEST4	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.
34*	N.C.	—	Terminal not used. Open during operation.
35*	MUTEL	Output	L channel 1 bit DAC: Mute output terminal for L channel.
36	LVDD	—	Power terminal for L channel.
37	LCHO	Output	L channel output terminal.
38	LVSS	—	Ground terminal for L channel Surely connected to 0V.
39	RVSS	—	R channel 1 bit DAC: Ground terminal for R channel Surely connected to 0V.
40	RCH0	Output	R channel output terminal.
41	RVDD	—	Power terminal for R channel.
42*	MUTER	Output	Mute output terminal for R channel.
43	XVDD	—	Power terminal for quartz oscillation.
44	XOUT	Output	Ground terminal of 16.9344 MHz quartz oscillator.
45	XIN	Input	Ground terminal of 16.9344 MHz quartz oscillator.
46	XVSS	—	Ground terminal for quartz oscillation. Surely connected to 0V.
47*	SBSY	Output	Output terminal of synchronous signal of subcode block.
48*	EFLG	Output	Correction monitor terminal of C1, C2, single and double.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

MC-Service

IC2 VHiLC78623D-1:Servo/Signal Control(LC78623D) (2/2)

Pin No.	Terminal Name	Input/Output	Function
49*	PW	Output	Output terminal of subcodes P, A, R, S, T, U and W.
50*	SFSY	Output	Output terminal of synchronous signal of subcode frame. It drops when subcode stands by.
51	SBCK	Input	Clock input terminal to read subcode. Schmit input (Connected to 0V when not used.)
52*	FSX	Output	Output terminal of synchronous signal of 7.35kHz divided from quartz oscillation.
53	WRQ	Output	Output terminal to stand by output of subcode Q.
54	RWC	Input	Input terminal of read/write. Schmit input.
55	SQOUT	Output	Output terminal of subcode Q.
56	COIN	Input	Command input terminal from microcomputer.
57	$\overline{CQCK}$	Input	Clock input terminal to fetch command input, or pick up subcode from SQOUT. Schmit input
58	$\overline{RES}$	Input	Reset input terminal of LC78622. When turning on power, set it at "L".
59*	TST11	Output	Output terminal for test. Used in the open state ("L" output as ordinary).
60*	16M	Output	Output terminal of 16.9344Hz.
61	4.2M	Output	Output terminal of 4.2336MHz.
62	TEST5	Input	Input terminal for test Pull-down resistor is integrated. Surely connected to 0V.
63	$\overline{CS}$	Input	Chip selection input terminal. Pull-down resistor is integrated. Connected to 0when not controlled.
64	TEST1	Input	Input terminal for test Pull-down resistor is integrated. Surely connected to 0V.

Note: The same potential must be supplied to the power terminals (VDD, VVDD, LVDD, RVDD, XVDD).

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

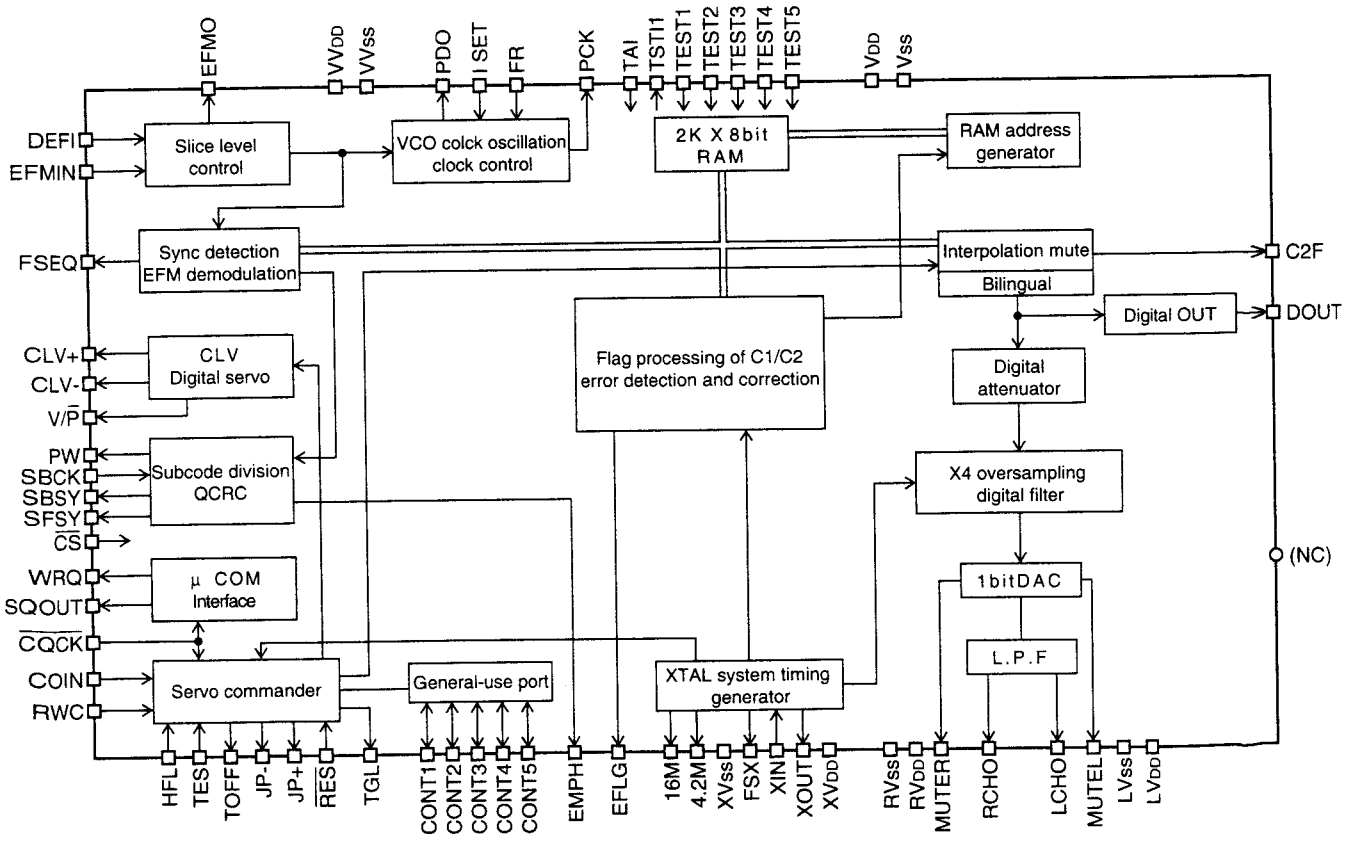


Figure 35 BLOCK DIAGRAM OF IC

IC1 VHiLA9241M/-1:Servo Amp.,(LA9241M) (1/2)

Pin No.	Port Name	Function
1	FIN2	Connection pin for photodiode of pickup. RF signal is generated through addition with FIN pin, and FE signal is generated through subtraction.
2	FIN1	Connection pin for photodiode of pickup.
3	E	Connection pin for photodiode of pickup. TE signal is generated through subtraction with F pin.
4	F	Connection pin for photodiode of pickup.
5	TB	Pin for input of DC component of TE signal.
6	TE-	Pin to connect gain setting resistor of TE signal to TE signal.
7	TE	TE signal output pin.
8	TESI	TES (Track error sense) comparator input pin. TE signal is band-passed and input.
9	SCI	Input pin for shock detection.
10	TH	Pin to set time constant of tracking gain.
11*	TA	TA amplifier output pin.
12	TD-	Pin to compose tracking phase compensation constant between TD and VR pins.
13	TD	Pin to set tracking phase compensation.
14	JP	Pin to set amplitude of tracking jump signal (kick pulse).
15	TO	Tracking control signal output pin.
16	FD	Focusing control signal output pin.
17	FD-	Pin to compose focusing phase compensation constant between FD and FA pins.
18	FA	Pin to compose focusing phase compensation constant between FD-/FA-pins.
19	FA-	Pin to compose focusing phase compensation constant between FA and FE pins.
20	FE	Output pin of FE signal.
21	FE-	Pin to connect gain setting resistor of FE signal across TE pin.
22	AGND	GND for analog signal.
23	SP	Single end output for CV+ and CV- pin input.
24	SPI	Spindle amplifier input.
25	SPG	Pin to connect gain setting resistor in the 12cm mode of spindle.
26	SP-	Pin to connect spindle phase compensation constant together with SPD pin.
27	SPD	Spindle control signal output pin.
28	SLEQ	Pin to connect thread phase compensation constant.
29	SLD	Thread control signal output pin.
30	SL-	Input pin of thread feed signal from micro computer.
31	SL+	Input pin of thread feed signal from micro computer.
32	JP-	Input pin of tracking jump signal from DSP.
33	JP+	Input pin of tracking jump signal from DSP.
34	TGL	Input pin of tracking gain control signal from DSP. TGL = Gain low at "H"
35	TOFF	Input pin of tracking off control signal from DSP. TOFF = Off at "H"
36	TES	Output pin of TES signal to DSP.
37	HFL	(HIGH FREQUENCY LEVEL) is used to judge whether main beam is positioned on the bit or on the mirror.
38	SLOF	Thread servo off control input pin.
39	CV-	Pin to input CLV error signal from DSP.
40	CV+	Pin to input CLV error signal from DSP.
41	RFSM	RF output pin.
42	RFS-	Pin to set gain of RF and set 3T compensation constant together with RFSM pin.
43	SLC	(SLICE LEVEL CONTROL) is the output pin to control of the level of the data slice with RF waveform DSP.
44	SLI	Input pin to control the level of data slice with DSP.
45	DGND	GND pin in the digital system.
46	FSC	Output pin for focus search smoothening capacitor.
47	TBC	(Tracking Balance Control) Pin to set EF balance variable range.
48*	NC	No connect.
49	DEF	Defect detection output pin of disk.
50	CLK	Reference clock input pin. 4.23MHz of DSP is input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

MC-Service

IC1 VHiLA9241M/-1:Servo Amp.,(LA9241M) (2/2)

Pin No.	Port Name	Function
51	CL	Micro computer command clock input pin.
52	DAT	Micro computer command data input pin.
53	CE	Micro computer command chip enable input pin.
54	DRF	(DETECT RF) RF level detection output.
55	FSS	(Focus Serch Select) Pin to switch focus search mode. (± search/+ search for reference voltage)
56	VCC2	VCC pin for servo system and digital system.
57	REFI	Pin to connect pass control for reference voltage.
58	VR	Reference voltage output pin.
59	LF2	Pin to set defect detection time constant of disk.
60	PH1	Pin to connect capacitor for peak hold of RF signal.
61	BH1	Pin to connect capacitor for bottom hold of RF signal.
62	LDD	APC circuit output pin.
63	LDS	APC circuit output pin.
64	VCC1	RF system VCC pin.

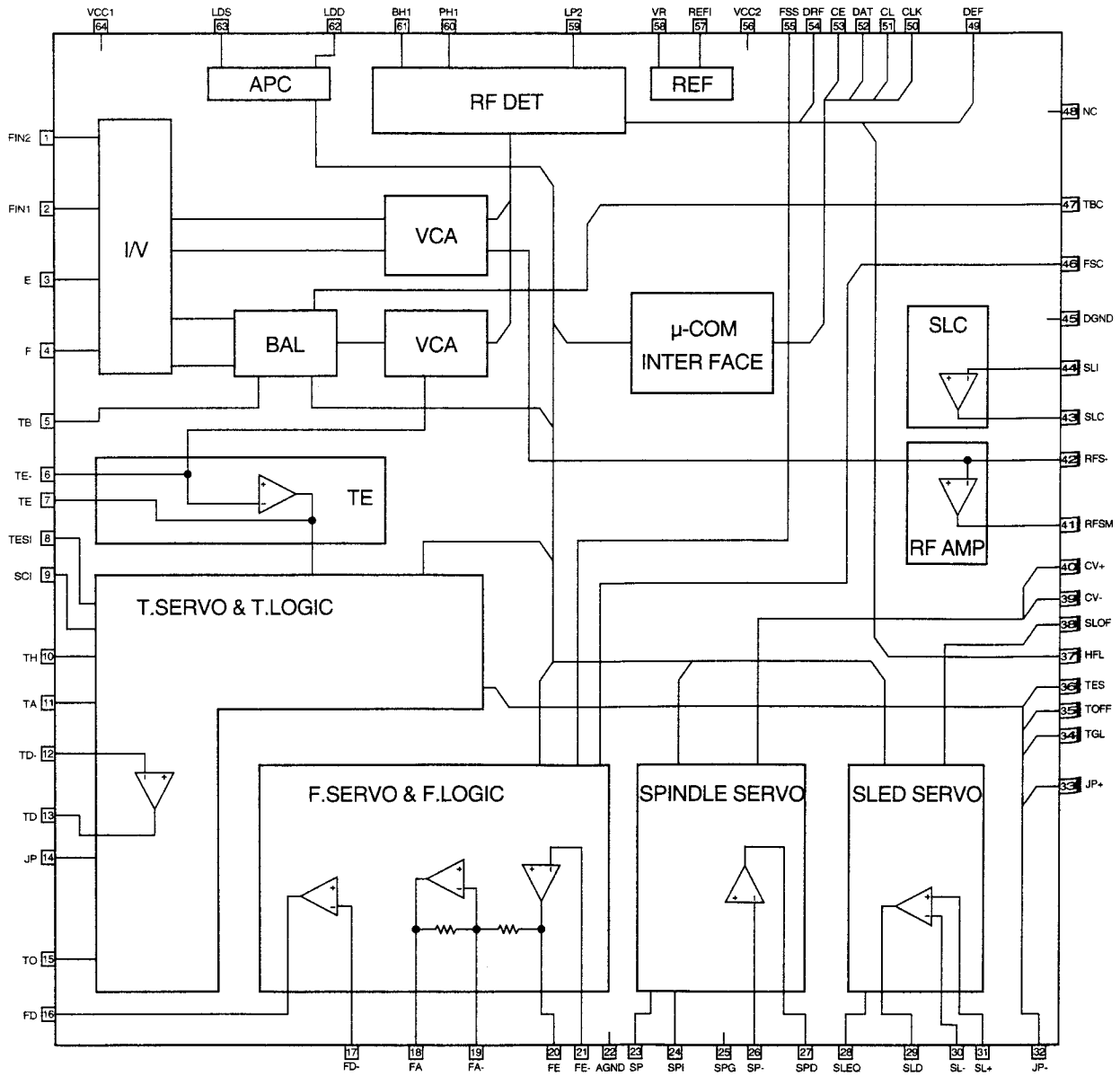


Figure 37 BLOCK DIAGRAM OF IC

IC701 RH-iX0182AWZZ:System Microcomputer (IX0182AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1-9	S12-S20	SEG12-SEG20	Output	LCD Segment
10*-12*	S21-S23	————	—	Not used
13*-18*	BP0-BP5	————	—	Not used
19*	BP6	PB-MUTE	Output	Tape playback mute
20*	BP7	S-MUTE	Output	System mute
21-24	COM0-COM3	COM0-COM3	Output	LCD Common
25	BIAS	BIAS	Output	LCD Bias
26-28	VCL0-VCL2	VCL0-VCL2	—	LCD Bias
29	P40	$\overline{KI0}$	Input	Key In 0
30	P41	$\overline{KI1}$	Input	Key In 1
31	P42	$\overline{KI2}$	Input	Key In 2
32	P43	$\overline{KI3}$	Input	Key In 3
33	VSS	VSS	—	VSS
34	P50	$\overline{KO0}$	Output	Key Out 0
35	P51	$\overline{KO1}$	Output	Key Out 1
36	P52	$\overline{KO2}$	Output	Key Out 2
37	P53	$\overline{KO3}$	Output	Key Out 3
38	P00	$\overline{REMOCON}$	Input	Remocon Input
39	P01	$\overline{SYSTEM\ STOP}$	Input	System stop detect
40	P02	DRF	Input	Focus ok flug
41	P03	WRQ	Input	Write request from contrroer
42	P10	REC	Input	REC ON
43	P11	$\overline{DISC\ NO.}$	Input	Disc No. detector
44	P12	$\overline{PU\ IN}$	Input	Pickup In side switch
45	P13	SQOUT	Input	SQ data from DSP
46	P20	SL+	Output	Slide +
47	P21	RWC	Output	Read/Write control
48	P22	CQCK	Output	Clock for CD DSP
49	P23	COIN	Output	Command data for DSP
50	P30	SL–	Output	Slide –
51	P31	$\overline{DSP\ RST}$	Output	CD DSP Reset
52,53	P32,P33	POWER,$\overline{POWER}$	Output	Power ON/OFF control
54	VDD	VDD	—	VDD +5V
55*,56*	XT1,XT2	XT1,XT2	—	Not used
57	IC	IC	—	Connect to VDD
58	X1	X1	—	X-TAL OSC IN
59	X2	X2	—	X-TAL OSC OUT
60	P60	SPAN	Input	Span selector 9K/10K
61	P61	T1 PLAY	Input	T1 Play detect
62	P62	T2 PLAY	Input	T2 Play detect
63	P63	D0	Input	Data in to VOL/PLL
64	P70	CL	Output	Clock for VOL/PLL
65	P71	DI	Output	Data in to VOL/PLL
66	P72	CE	Output	Chip enable for VOL/PLL
67	P73	T1/T2	Output	Tape play SW H: T1 L: T2
68	RESET	$\overline{RESET}$	Input	System reset
69-80	S0-S11	SEG0-SEG11	Output	LCD Segment

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

MC-Service

IC701 RH-iX0182AWZZ:System Microcomputer (IX0182AW)

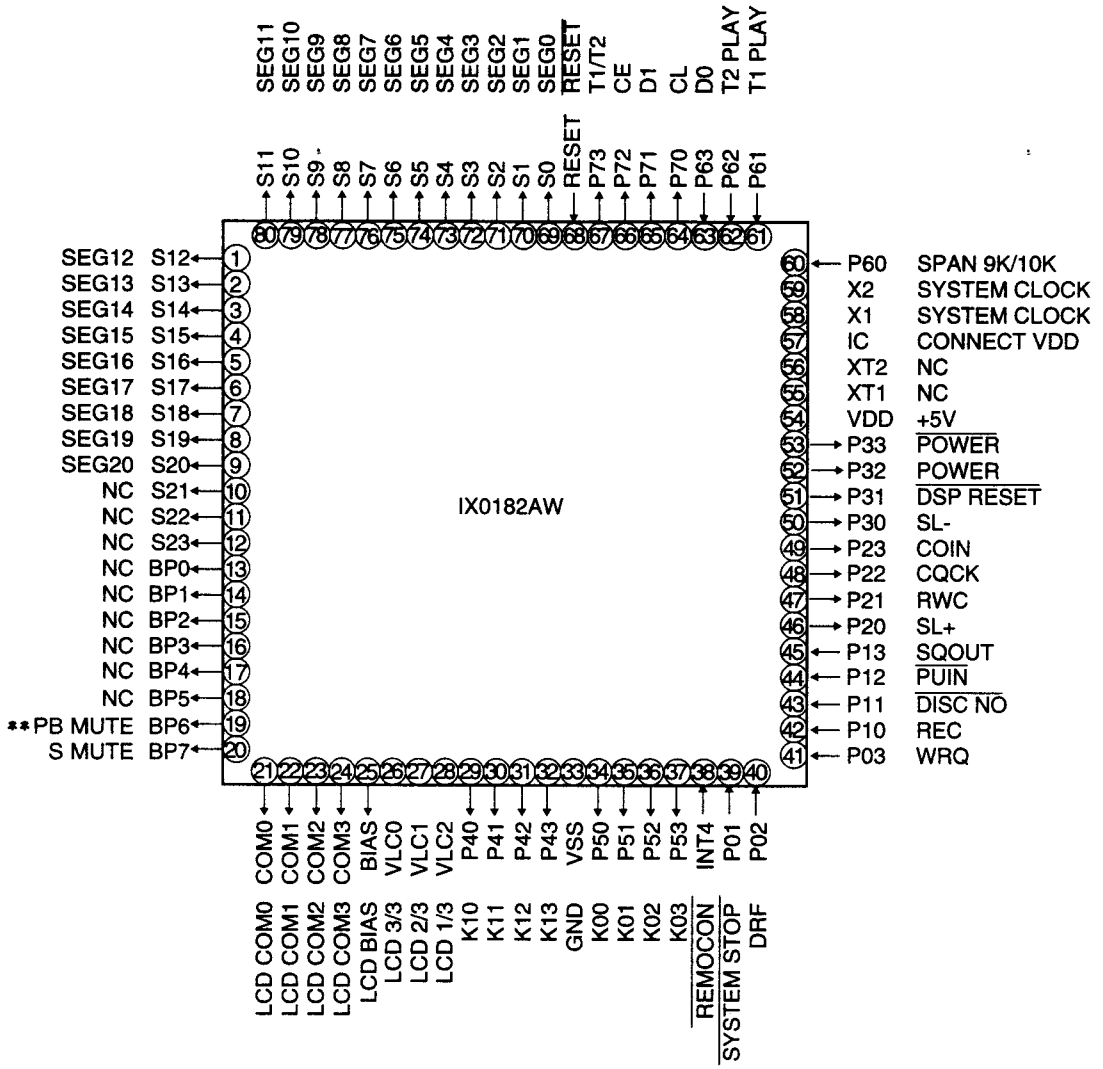

IX0182AW
SEG12 S12
SEG13 S13
SEG14 S14
SEG15 S15
SEG16 S16
SEG17 S17
SEG18 S18
SEG19 S19
SEG20 S20
NC S21
NC S22
NC S23
NC BP0
NC BP1
NC BP2
NC BP3
NC BP4
NC BP5
**PB MUTE BP6
S MUTE BP7
P60 SPAN 9K/10K
X2 SYSTEM CLOCK
X1 SYSTEM CLOCK
IC CONNECT VDD
XT2 NC
XT1 NC
VDD +5V
P33 POWER
P32 POWER
P31 DSP RESET
P30 SL-
P23 COIN
P22 CQCK
P21 RWC
P20 SL+
P13 SQOUT
P12 PUIN
P11 DISC NO
P10 REC
P03 WRQ
SEG11 SEG10 SEG9 SEG8 SEG7 SEG6 SEG5 SEG4 SEG3 SEG2 SEG1 SEG0 RESET T1/T2 CE D1 CL D0 T2 PLAY T1 PLAY
S11 S10 S9 S8 S7 S6 S5 S4 S3 S2 S1 S0 RESET P73 P72 P71 P70 P63 P62 P61
COM0 COM1 COM2 COM3 BIAS VLC0 VLC1 VLC2 P40 P41 P42 P43 VSS P50 P51 P52 P53 INT4 P01 P02
LCD COM0 LCD COM1 LCD COM2 LCD COM3 LCD BIAS LCD 3/3 LCD 2/3 LCD 1/3 K10 K11 K12 K13 GND K00 K01 K02 K03 REMOCON SYSTEM STOP DRF

Figure 39-1 BLOCK DIAGRAM OF IC

IC5 VHiM56748FP-1:Focus/Tracking/Spin/Slide Driver (M56748FP)

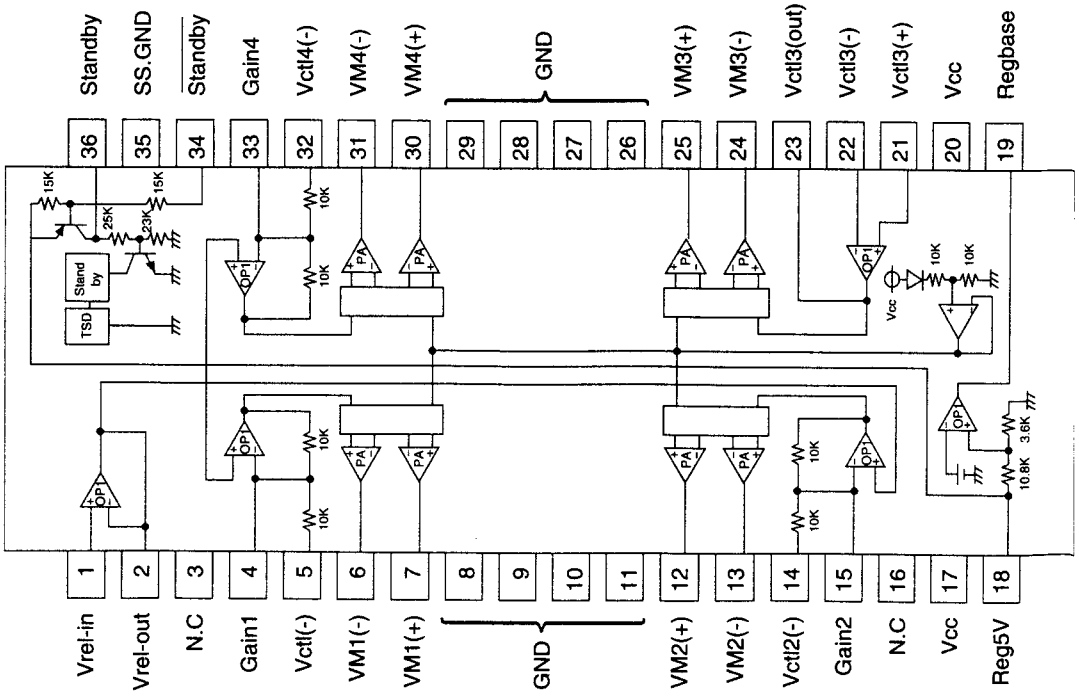
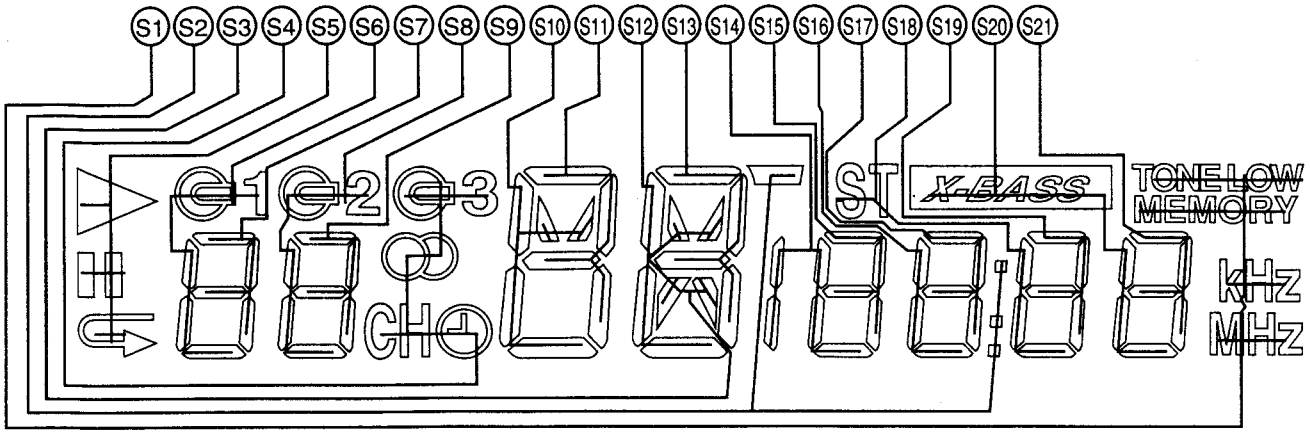

Standby SS.GND Standby Gain4 Vctl4(-) VM4(-) VM4(+) GND VM3(+) VM3(-) Vctl3(out) Vctl3(-) Vctl3(+) Vcc Regbase
36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19
Vrel-in Vrel-out N.C Gain1 Vctl(-) VM1(-) VM1(+) GND VM2(+) VM2(-) Vctl2(-) Gain2 N.C Vcc Reg5V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
15K 25K 23K 10K Stand by TSD OP PA Vcc 3.6K 10.8K

Figure 39-2 BLOCK DIAGRAM OF IC

LCD701 : RV-LX0025AWZZ

SEGMENT



COMMON

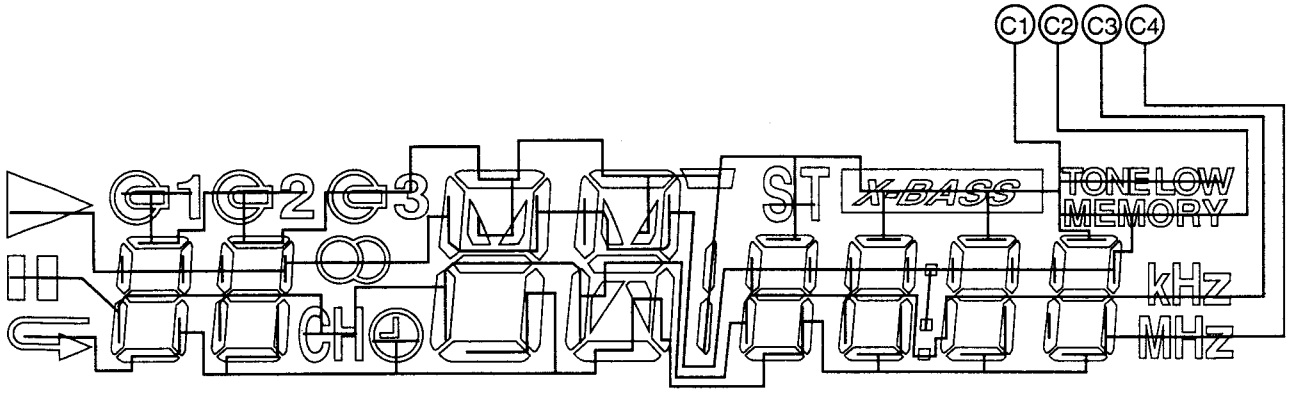


Figure 40-1 DISPLAY PANEL

WIRING OF PRIMARILY SUPPLY LEADS (FOR UK ONLY)

If any one of the bands shown in Fig. 40-2 is removed for some reason, be sure replace it to the original position and same appearance as before.

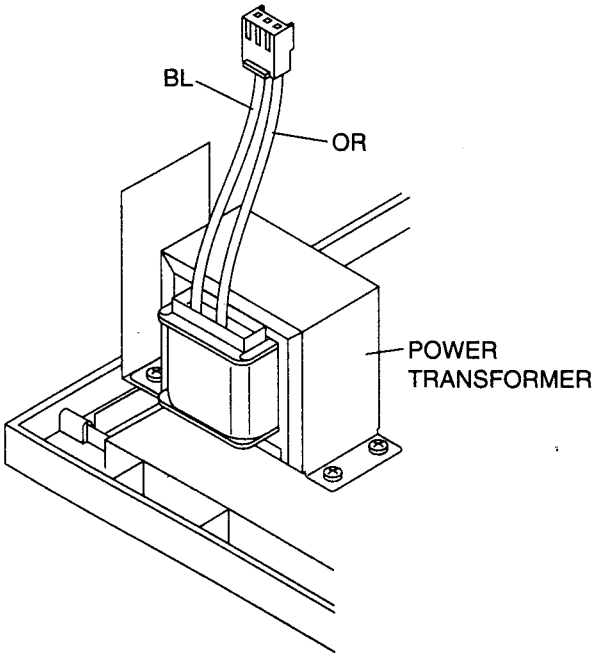


Figure 40-2

SHARP PARTS GUIDE

MODEL CD-C401H
CP-C402

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

NO.	PART CODE	★	PRICE RANK	DESCRIPTION

CD-C401H

INTEGRATED CIRCUITS

IC1	VHILA9241M/-1	J	AS	Servo Amp.,LA9241M
IC2	VHILC78623D-1	J	AY	Servo/Signal Control,LC78623D
IC5	VHIM56748FP-1	J	AR	Focus/Tracking/Spin/Slide Driver,M56748FP
IC91	VHITA7291S/-1	J	AH	Loading Motor Driver, TA7291S
IC201	VHIAN7345K/-1	J	AM	Playback and Record/ Playback Amp.,AN7345K
IC351	VHILA1805//-1	J	AM	FM/AF IF MPX.,LA1805
IC381	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC431	VHILC75394E-1	J	AX	Audio Processor,LC75394E
IC601	VHILA4282//-1	J	AM	Power Amp.,LA4282
IC701	RH-IX0182AWZZ	J	AW	System Microcomputer, IX0182AW
IC921	VHIKIA7805P-1	J	AF	Voltage Regulator,KIA7805P
IC922	VHIKIA7812P-1	J	AE	Voltage Regulator,KIA7812P

TRANSISTORS

Q1	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q91	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q93	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q201~204	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q205,206	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q207	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q208,209	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q210,211	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q212	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q213,214	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q303	VS2SC380-O/-1	J	AC	Silicon,NPN,2SC380 O
Q304	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q351	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q352	VSKRA109M//-1	J	AC	Digital,PNP,KRA109 M
Q381	VSKRA102M//-1	J	AC	Digital,PNP,KRA102 M
Q641	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q701	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q702,703	VSKTC3199GR-1	J	AB	Digital,NPN,KTC3199 GR
Q704	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q705	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q924	VS2SD2012Y/-1	J	AF	Silicon,NPN,2SD2012 Y
Q925	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q926	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M

DIODES

D2	VHD1SS119//-1	J	AA	Silicon,1SS119
D4,5	VHD1SS119//-1	J	AA	Silicon,1SS119
D81	VHD1SS119//-1	J	AA	Silicon,1SS119
D91	VHD1SS119//-1	J	AA	Silicon,1SS119
D201,202	VHDRL104A//-1	J	AB	Silicon,RL104A
D203~205	VHD1SS119//-1	J	AA	Silicon,1SS119
D301,302	VHD1SS119//-1	J	AA	Silicon,1SS119
D381~384	VHD1SS119//-1	J	AA	Silicon,1SS119
D431	VHD1SS119//-1	J	AA	Silicon,1SS119
D602,603	VHD1SS119//-1	J	AA	Silicon,1SS119
D701~705	VHD1SS119//-1	J	AA	Silicon,1SS119
D712	VHD1SS119//-1	J	AA	Silicon,1SS119
D901~904	VHDRL203F//-1	J	AE	Silicon,RL203F
D905~908	VHDRL104A//-1	J	AB	Silicon,RL104A
VD331	VHCKV1236Z23F	J	AS	Variable Capacitance, KV1236Z23F
ZD381	VHEUZ5R1BSB-1	J	AA	Zener,5.1V,UZ5.1BSB
ZD701	VHEUZ3R3BSB-1	J	AB	Zener,3.3V,UZ3.3BSB

FILTERS

CF302,303	RFILF0072AFZZ	J	AG	FM IF,10.7 MHz
CF351	92LFILTA1768A	J	AE	AM IF

TRANSFORMERS

T331	RCILA0052AWZZ	J	AE	AM Antenna
T333	RCILB0058AWZZ	J	AC	OSC,AM
T351	RCILI0015AWZZ	J	AE	AM IF
T352	RCILI0016AWZZ	J	AC	FM Detection
⚠T901	RTRNP0133AWZZ	J	BA	Power

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

COILS

L1	VP-XHR82K0000	J	AC	0.82 µH
L2	VP-CH270K0000	J	AB	27 µH,Choke
L3	VP-MK470K0000	J	AB	47 µH,Choke
L203	VP-CH331K0000	J	AB	330 µH,Choke
L205	VP-CH101K0000	J	AB	100 µH,Choke
L301	RBLN-0001AWZZ	J	AD	Balun
L304	VP-XH2R2K0000	J	AB	2.2 µH,Choke
L305	RFILL0001AWZZ	J	AE	Low Pass Filter
L381	VP-DH101K0000	J	AB	100 µH,Choke
L601,602	RCILZ0137AFZZ	J	AA	0.29 µH
L701	VP-CH101K0000	J	AB	100 µH,Choke
L901	RCILZ0008AWZZ	J	AH	Core

VARIABLE RESISTOR

VR351	92LVRS682NBMT	J	AC	6.8 kohms (B),Semi-VR [VCO]

VIBRATORS

X381	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
XL1	RCRM-0008AWZZ	J	AF	Ceramic,16.93 MHz
XL701	RCRSP0003AWZZ	J	AH	Ceramic,4.19 MHz

CAPACITORS

C1	VCTYMN1CY103N	J	AA	0.01 µF,16V
C2	RC-GZA476AF1A	J	AB	47 µF,10V,Electrolytic
C3	RC-GZA104AF1H	J	AB	0.1 µF,50V,Electrolytic
C4	VCKYMN1HB102K	J	AA	0.001 µF,50V
C5,6	RC-QZ0020AWZZ	J	AB	0.033 µF,50V,Mylar
C7	RC-GZA104AF1H	J	AB	0.1 µF,50V,Electrolytic
C8	RC-QZ0024AWZZ	J	AB	0.068 µF,50V,Mylar
C9	RC-QZ0022AWZZ	J	AB	0.047 µF,50V,Mylar
C10	VCKYMN1HB181K	J	AA	180 pF,50V
C11	RC-QZ0026AWZZ	J	AB	0.1 µF,50V,Mylar
C12	VCKYMN1HB331K	J	AA	330 pF,50V
C13	RC-QZ0026AWZZ	J	AB	0.1 µF,50V,Mylar
C14	VCTYMN1CY103K	J	AA	0.01 µF,16V
C15	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C16	VCKYMN1HB102K	J	AA	0.001 µF,50V
C17	RC-GZA474AF1H	J	AA	0.47 µF,50V,Electrolytic
C18	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C19	RC-GZA476AF1A	J	AB	47 µF,10V,Electrolytic
C20	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C21	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C22	VCTYMN1CY103N	J	AA	0.01 µF,16V
C24	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C25	VCTYMN1CY103N	J	AA	0.01 µF,16V
C30	VCCSMN1HL2R2C	J	AB	2.2 pF,50V
C31	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C32	VCCSMN1HL270J	J	AA	27 pF,50V
C33	VCKYMN1HB102K	J	AA	0.001 µF,50V
C34	RC-QZ0020AWZZ	J	AB	0.033 µF,50V,Mylar
C35	RC-GZA104AF1H	J	AB	0.1 µF,50V,Electrolytic
C37	RC-GZA227AF0J	J	AB	220 µF,6.3V,Electrolytic
C38	VCTYMN1CY103K	J	AA	0.01 µF,16V
C39	RC-GZA474AF1H	J	AA	0.47 µF,50V,Electrolytic
C40	RC-GZA334AF1H	J	AA	0.33 µF,50V,Electrolytic
C41,42	RC-QZ0022AWZZ	J	AB	0.047 µF,50V,Mylar
C43	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C44	RC-GZA337AF1A	J	AB	330 µF,10V,Electrolytic
C45	RC-GZA475AF1E	J	AB	4.7 µF,25V,Electrolytic
C50	RC-QZ0026AWZZ	J	AB	0.1 µF,50V,Mylar
C51	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C52	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C53	VCKYMN1HB221K	J	AA	220 pF,50V
C54~57	VCKYMN1HB101K	J	AA	100 pF,50V
C59	RC-QZ0018AWZZ	J	AB	0.022 µF,50V,Mylar
C67,68	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C69,70	VCKYMN1HB221K	J	AA	220 pF,50V
C71	VCKYMN1HB331K	J	AA	330 pF,50V
C72	VCKYPA1HB102K	J	AA	0.001 µF,50V
C74	VCKYBT1HB102K	J	AA	0.001 µF,50V
C75	VCKYMN1HB101K	J	AA	100 pF,50V
C91	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C201,202	VCKYMN1HB102K	J	AA	0.001 µF,50V
C203,204	VCKYMN1HB181K	J	AA	180 pF,50V
C207,208	VCKYMN1HB102K	J	AA	0.001 µF,50V
C209	RC-QZ0018AWZZ	J	AB	0.022 µF,50V,Mylar
C210~213	VCKYMN1HB331K	J	AA	330 pF,50V

MC-Service

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
C214,215	RC-GZA476AF1A	J	AB	47 µF,10V,Electrolytic
C216,217	RC-QZ0020AWZZ	J	AB	0.033 µF,50V,Mylar
C218,219	VCKYMN1HB561K	J	AA	560 pF,50V
C220,221	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C222	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C223	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C224	RC-GZA335AF1E	J	AB	3.3 µF,25V,Electrolytic
C227,228	VCKYMN1HB102K	J	AA	0.001 µF,50V
C229,230	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C231,232	RC-QZ0023AWZZ	J	AB	0.056 µF,50V,Mylar
C235,236	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C237,238	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C239	RC-QZ0025AWZZ	J	AB	0.082 µF,50V,Mylar
C240	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C241	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C242	RC-QZA392AFYJ	J	AB	0.0039 µF,50V,Mylar
C243	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
C244	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C245	VCKYMN1HB102K	J	AA	0.001 µF,50V
C246	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C247	VCKYMN1HB102K	J	AA	0.001 µF,50V
C248	VCKZPA1HF103Z	J	AA	0.01 µF,50V
C265	RC-GZA475AF1E	J	AB	4.7 µF,25V,Electrolytic
C301	VCKYMN1HB102K	J	AA	0.001 µF,50V
C302~305	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C307,308	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C331	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C336	VCCUMN1HJ180J	J	AA	18 pF (UJ),50V
C339	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C340	VCKYMN1HB471K	J	AA	470 pF,50V
C342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C344	VCCUMN1HJ8R2D	J	AA	8.2 pF (UJ),50V
C351,352	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C353	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C354	RC-GZA227AF1A	J	AB	220 µF,10V,Electrolytic
C355	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C356	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C357	VCTYMN0JY183M	J	AA	0.018 µF,6.3V
C358	VCKYMN1HB471K	J	AA	470 pF,50V
C359,360	RC-GZA335AF1E	J	AB	3.3 µF,25V,Electrolytic
C362	RC-GZA335AF1E	J	AB	3.3 µF,25V,Electrolytic
C363	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C364	92LCPU100V1500	J	AC	0.0015 µF,100V
C371,372	RC-QZ0016AWZZ	J	AB	0.015 µF,50V,Mylar
C373,374	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C383	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C384	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C385	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C387	VCKYMN1HB101K	J	AA	100 pF,50V
C388	VCKYMN1HB102K	J	AA	0.001 µF,50V
C390	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C391	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C431~436	RC-QZ0022AWZZ	J	AB	0.047 µF,50V,Mylar
C439,440	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C441,442	VCKYMN1HB181K	J	AA	180 pF,50V
C443,444	RC-GZA684AF1H	J	AB	0.68 µF,50V,Electrolytic
C445,446	RC-QZ0018AWZZ	J	AB	0.022 µF,50V,Mylar
C459,460	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C461,462	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C463,464	VCKYMN1HB101K	J	AA	100 pF,50V
C465~468	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C471	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C475	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C476	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C481,482	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C601,602	VCKYMN1HB102K	J	AA	0.001 µF,50V
C603,604	RC-QZ0025AWZZ	J	AB	0.082 µF,50V,Mylar
C607,608	RC-GZA107AF1E	J	AB	100 µF,25V,Electrolytic
C609,610	RC-GZW477AF1E	J	AC	470 µF,25V,Electrolytic
C611~614	RC-QZ0026AWZZ	J	AB	0.1 µF,50V,Mylar
C633	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C634	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C636	RC-QZ0018AWZZ	J	AB	0.022 µF,50V,Mylar
C639	VCKYMN1HB561K	J	AA	560 pF,50V
C652	VCKZPA1HF103Z	J	AA	0.01 µF,50V
C653,654	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C655~658	RC-QZA473AFYJ	J	AB	0.047 µF,50V,Mylar
C659~662	RC-QZ0018AWZZ	J	AB	0.022 µF,50V,Mylar
C663,664	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C665	RC-GZA106AF1H	J	AB	10 µF,50V,Electrolytic

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C701	VCKYMN1HB101K	J	AA	100 pF,50V
C702	VCTYMN1CY103K	J	AA	0.01 µF,16V
C703~705	VCKYMN1HB101K	J	AA	100 pF,50V
C706	RC-GZA335AF1E	J	AB	3.3 µF,25V,Electrolytic
C707	VCTYMN1CY103K	J	AA	0.01 µF,16V
C708	VCTYMN1CY103M	J	AA	0.01µF,16V
C709,710	VCTYMN1CY103K	J	AA	0.01 µF,16V
C711	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C712	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C713	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C714	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C715	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C716	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C717	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C718~720	VCKYMN1HB101K	J	AA	100 pF,50V
C902	RC-GZW228AF1H	J	AH	2200 µF,50V,Electrolytic
C903	RC-GZW338AF1V	J	AH	3300 µF,35V,Electrolytic
C904,905	RC-QZA224AFYJ	J	AB	0.22 µF,50V,Mylar
C906,907	RC-QZA473AFYJ	J	AB	0.047 µF,50V,Mylar
C921,922	RC-QZ0018AWZZ	J	AB	0.022 µF,50V,Mylar
C923,924	RC-QZ0026AWZZ	J	AB	0.1 µF,50V,Mylar
C925	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C926,927	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C928	RC-QZ0026AWZZ	J	AB	0.1 µF,50V,Mylar
C930	VCKYMN1HB102K	J	AA	0.001 µF,50V

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
R1	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R2	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R3	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R4	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R5	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R6	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R7	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R8	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R9	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R10	VRD-ST2CD823J	J	AA	82 kohms,1/6W
R11	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R12	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R13	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R14	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R15	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R16	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R17	VRD-MN2BD823J	J	AA	82 kohms,1/8W
R18	VRD-ST2CD335J	J	AA	3.3 Mohms,1/6W
R19	VRD-MN2BD393J	J	AA	39 kohms,1/8W
R20	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R21	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R22	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R23	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R24	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R25	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R26,27	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R28,29	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R30	VRD-MN2BD183J	J	AA	18 kohms,1/8W
R31	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R32	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R33	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R34	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R35	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R36,37	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R38	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R39,40	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R41	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R42	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R43	VRD-MN2BD120J	J	AA	12 ohms,1/8W
R45	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R46,47	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R54	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R56	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R57	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R58	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R60	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R73	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R74	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R75,76	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R77,78	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R82	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R86~88	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R89,90	VRD-ST2CD102J	J	AA	1 kohm,1/6W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R91,92	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R95	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R96	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R97	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R98	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R99	VRD-ST2EE3R9J	J	AA	3.9 ohms,1/4W
R201	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R202	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R203,204	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R205	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R206,207	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R208~213	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R214	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R215	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R216,217	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R218,219	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R220	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R223,224	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R225,226	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R227	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R228	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R229	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R230	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R231,232	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R233	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R234	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R235	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R236,237	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R238	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R239,240	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R243~249	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R250	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R251	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R252	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R253	VRD-MN2BD120J	J	AA	12 ohms,1/8W
R254	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R255	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R256	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R257	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R258	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R259	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R260	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R265	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R266	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R321	VRD-ST2CD151J	J	AA	150 ohms,1/6W
R322	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R323	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R324	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R325	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R326	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R327	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R331	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R333,334	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R339	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R341	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R342	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R343	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R344	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R351	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R352	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R353	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R354	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R355	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R356	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R357	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R358	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R359	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R360	VRD-ST2EE471J	J	AA	470 ohms,1/4W
R363	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R373,374	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R375,376	VRD-ST2CD561J	J	AA	560 ohms,1/6W
R383	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R384	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R387	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R388	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R390	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R391	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R392~396	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R397,398	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R399,400	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R447,448	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R449,450	VRD-MN2BD123J	J	AA	12 kohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R451	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R452	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R460~462	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R463~468	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R601,602	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R603,604	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R605,606	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R607,608	VRD-MN2BD121J	J	AA	120 ohms,1/8W
R615,616	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R625,626	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R629,630	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R631,632	VRD-ST2EE3R9J	J	AA	3.9 ohms,1/4W
R633,634	VRD-ST2EE6R8J	J	AA	6.8 ohms,1/4W
R643	VRD-ST2EE821J	J	AA	820 ohms,1/4W
R644	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R701,702	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R703	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R704	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R705	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R706	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R707,708	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R709~716	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R717	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R718	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R719,720	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R721	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R722	VRD-MN2BD820J	J	AA	82 ohms,1/8W
R723	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R724	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R725~729	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R730,731	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R732	VRD-ST2EE120J	J	AA	12 ohms,1/4W
R734,735	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R736	VRD-MN2BD151J	J	AA	150 ohms,1/8W
R737	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R738~741	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R742	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R743	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R744,745	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R746	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R749	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R752	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R753,754	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R755,756	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R757~760	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R761	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R762	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R764	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R765	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R766	VRD-RT2HD100J	J	AA	10 ohm,1/2W
R922	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R923	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R924	VRD-MN2BD103J	J	AA	10 kohm,1/8W

OTHER CIRCUITRY PARTS

BIM5/CNS4/CNS5	QCNWN0894AWZZ	J	AH	Connector Ass'y,6-10-2Pin
CNP1	92LCONE5P53253	J	AB	Plug,5Pin
CNP2	92LCONE8P53253	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP4	92LCONEAP53253	J	AC	Plug,10Pin
CNP201	92LCONE3P53253	J	AB	Plug,3Pin
CNP202	92LCONE7P53253	J	AC	Plug,7Pin
CNP203	92LCONE8P53253	J	AC	Plug,8Pin
CNP204	QCNCM035BAWZZ	J	AB	Plug,2Pin
CNP301	92LCONE-2P5268	J	AB	Plug,2Pin
CNP901	QCNCM035DAWZZ	J	AB	Plug,4Pin
CNP902	QCNCM036BAWZZ	J	AC	Plug,2Pin
CNS1A/B	QCNWN0891AWZZ	J	AG	Connector Ass'y,5-5Pin
CNS2A/B	QCNWN0892AWZZ	J	AF	Connector Ass'y,8-8Pin
CNS3A/B	QCNWN0893AWZZ	J	AF	Connector Ass'y,6-6Pin
CNS201	QCNWN0919AWZZ	J	AE	Connector Ass'y,3Pin
CNS202	QCNWN0920AWZZ	J	AG	Connector Ass'y,7Pin
CNS203	QCNWN0921AWZZ	J	AE	Connector Ass'y,8Pin
CNS204	QCNWN0923AWZZ	J	AD	Connector Ass'y,2Pin
⚠ F901	92LFUSET252E	J	AD	Fuse,T2.5A L 250V
⚠ F902	92LFUSE-T162-E	J	AD	Fuse,T1.6A L 250V
⚠ F921	92LFUSE-T501-B	J	AC	Fuse,T500mA L 250V
FE301	RTUNS0007AWZZ	J	AT	FM Front End
J601	QJAKM0006AWZZ	J	AD	Jack,Headphones
LCD701	RV-LX0025AWZZ	J	AQ	Display Panel
LG601,602	QLUGP0001AWZZ	J	AC	Lug

MC-Service

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
LMP1,2	RLMPM0001AWZZ	J	AF	Lamp
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	92LMTR2037AS1	J	AP	Motor with Worm [T/T Up/Down]
M601	92LMTR1746AASY	J	AP	Motor with Pulley [Tape]
RX701	VHL21043TH2-1	J	AG	Remote Sensor,21043TH2
SO301	QTANC0103AWZZ	J	AD	Antenna Terminal
SO601	QTANA0407AWZZ	J	AE	Terminal,Speaker
SO901	QSOCA0204AWZZ	J	AF	Socket,AC Inlet
SOLM2	RPLU-0002AWZZ	J	AH	Solenoid Ass'y
SW1	QSW-P0004AWZZ	J	AE	Switch,Push Type [Open/Close]
SW2	QSW-F0001AWZZ	J	AD	Switch,Leaf/Skeleton Type [Mecha Up]
SW3	QSW-P0005AWZZ	J	AD	Switch,Push Type [Disc Number]
SW4	QSW-F9001AWZZ	J	AE	Switch,Push Type [Pickup In]
SW605	92LM-SW1491A	J	AE	Switch,Leaf Type [Tape 1 Main]
SW606	92LM-SW1491A	J	AE	Switch,Leaf Type [Tape 2 Main]
SW607	92LM-SW1658A	J	AB	Switch,Leaf Type [Rec.]
SW608	QSW-F0346AFZZ	J	AB	Switch,Leaf Type [Tape 1 Play]
SW701	92LSWICH-1401A	J	AC	Switch,Key Type [Power]
SW702	92LSWICH-1401A	J	AC	Switch,Key Type [Volume Up]
SW703	92LSWICH-1401A	J	AC	Switch,Key Type [Volume Down]
SW704	92LSWICH-1401A	J	AC	Switch,Key Type [Play]
SW705	92LSWICH-1401A	J	AC	Switch,Key Type [FF]
SW706	92LSWICH-1401A	J	AC	Switch,Key Type [REW]
SW707	92LSWICH-1401A	J	AC	Switch,Key Type [Open/Close]
SW708	92LSWICH-1401A	J	AC	Switch,Key Type [Stop]
SW709	92LSWICH-1401A	J	AC	Switch,Key Type [Disc Skip]
SW710	92LSWICH-1401A	J	AC	Switch,Key Type [X-BASS]
SW711	92LSWICH-1401A	J	AC	Switch,Key Type [Function]
SW712	92LSWICH-1401A	J	AC	Switch,Key Type [Band]
SW713	92LSWICH-1401A	J	AC	Switch,Key Type [Clock/Timer]
SW714	92LSWICH-1401A	J	AC	Switch,Key Type [Memory]
SW715	92LSWICH-1401A	J	AC	Switch,Key Type [Tuning Up]
SW716	92LSWICH-1401A	J	AC	Switch,Key Type [Tuning Down]

DECK MECHANISM PARTS

1	92LM-ANG1658A	J	AC	Joint Bracket,Mechanism
2	92LM-BANG1658A	J	AC	Frame,Button
3	92LM-BELT1651B	J	AB	FR Belt
4	92LMBELT1658A1	J	AC	Drive Belt [Tape 1]
5	92LMBELT1658B1	J	AC	Drive Belt [Tape 2]
6	92LMBJANG1658A	J	AA	Joint Bracket,Button
10	92LM-CSPR667J	J	AA	Spring,Latch Plate
12	92LM-CSPR1651F	J	AA	Spring,Back Tention
13	92LM-EH1658A	J	AG	Head,Erase
14	92LM-ESPR1651A	J	AA	Spring,Lock Plate
15	92LM-ESPR1651B	J	AA	Spring,Holder Lock Lever
17	92LM-FRRA1651A	J	AF	FR Roller Ass'y
18	92LM-FWA1651A	J	AG	Flywheel Ass'y [Tape 2]
19	92LM-FWA1658A	J	AG	Flywheel Ass'y [Tape 1]
20	92LM-GEAR1651C	J	AA	Gear,FF
21	92LM-HPLT1746A	J	AC	Plate,Head
22	92LM-ICAM1651A	J	AB	Cam,Idler
23	92LM-ILA1651A	J	AB	Idler Lever Ass'y
24	92LM-LEV1651G1	J	AC	Lever,Main Lock
25	92LM-LEV1651I	J	AA	Lever,AS Killer
27	92LM-LEV1651K	J	AA	Lever,Eject Joint
28	92LM-LEV1651L	J	AB	Lever,Erase Prevention
29	92LM-LEV1658A1	J	AB	Lever,Record
30	92LM-LEV1658B	J	AA	Lever,Play
31	92LM-LEV1658C	J	AA	Lever,Rewind
32	92LM-LEV1658D	J	AB	Lever,FF
33	92LM-LEV1658E	J	AB	Lever,Stop
35	92LM-LEV1658H	J	AB	Lever,Holder Lock
37	92LM-LEV1658J	J	AB	Guide,Tape 1
38	92LM-LGA1746A	J	AF	Lever Guide Ass'y
40	92LM-MCA1654A	J	AK	Main Chassis Ass'y [Tape 2]
42	MSPRP0492AFFW	J	AA	Spring,Cassette
45	92LM-PRA1651A	J	AE	Pinch Roller Ass'y
46	92LM-REL1651B	J	AB	Supply Reel
47	92LM-RPH1746A	J	AM	Head,Record/Playback
48	92LM-SFT1658A	J	AD	Shaft,Button
50	92LM-TSPR1746A	J	AA	Spring,Pinch Roller
51	92LM-TSPR1651B	J	AA	Spring,Operate Lever
52	92LM-TSPR1651C	J	AA	Spring,Record Lever
53	92LM-TSPR1651D	J	AA	Spring,Idler Lever
55	92LM-TSPR1651F	J	AA	Spring,AS Killer Lever
56	92LMTURA1651A1	J	AF	Take-up Reel Ass'y
58	92LM-TSPR1651G	J	AA	Spring,Pause Stop Lever
64	92L1R5WC3R8R5P	J	AA	Washer,ø1.5xø3.8x0.5mm
65	92L1R2WC3R2R5P	J	AA	Washer,ø1.2xø3.2x0.5mm
66	92L1R8WC3R4R5P	J	AA	Washer,ø1.8xø3.4x0.5mm
67	92L2R3W6R5P	J	AA	Washer,ø2.3xø6x0.5mm
69	92L1R2WC4-R5P	J	AA	Washer,ø1.2xø4x0.5mm
70	92L3R6W6-R5P	J	AA	Washer,ø3.6xø6x0.5mm
71	92LS2R7W6R4R5L	J	AA	Washer,ø2.7xø6.4x0.5mm
72	92LM-MCA1858A	J	AH	Main Chassis Ass'y [Tape 1]
73	92LN-BAND1318A	J	AA	Nylon Band,80mm
501	92LS2R6S1746A	J	AA	Motor Screw,ø2.6mm
504	92L2BTS+5BZ	J	AA	Screw,ø2x5mm
505	92L2BTS+7BZ	J	AA	Screw,ø2x7mm
506	92L2TTS+3BZ	J	AA	Screw,ø2x3mm
508	92L2TTS+4BZ	J	AA	Screw,ø2x4mm
509	92L2TTS+4PZ	J	AA	Screw,ø2x4mm
510	92LS2S1658C	J	AA	Screw,ø2x9mm
511	92L2BTS+5PZ	J	AA	Screw,ø2x5mm
M601	92LMTR1746AASY	J	AP	Motor With Pulley [Tape]
SW605	92LM-SW1491A	J	AE	Switch,Leaf Type [Tape 1 Main]
SW606	92LM-SW1491A	J	AE	Switch,Leaf Type [Tape 2 Main]
SW607	92LM-SW1658A	J	AB	Switch,Leaf Type [Rec.]
SW608	QSW-F0346AFZZ	J	AB	Switch,Leaf Type [Tape 1 Play]

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0010AWZZ	J	AC	Rail,Guide
304	NSFTM0002AWFW	J	AE	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠306	92LHPC1MASY	J	BG	Pickup Unit Ass'y
306-1	———		—	Pickup Unit (Not Replacement Item)
306-2	NGERR0043AFZZ	J	AC	Gear,Rack
306-3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	92L2R6S+6CZ	J	AB	Screw,ø2.6x6mm
702	92L2TTS+5BB	J	AB	Screw,ø2x5mm
703	92L2S+3PZ	J	AA	Screw,ø2x3mm
704	92L1R5WC3R8R25	J	AA	Washer,ø1.5xø3.8x0.25mm
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AWZZ	J	AE	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	92LCAB2450AS1	J	AT	Front Panel Ass'y
201-1	———		—	Front Panel (Not Replacement Item)
201-2	HDECQ0248AWSA	J	AK	Panel,Display
202	GITAR0244AWSA	J	AH	Back Board [Except for UK]
202	GITAR0245AWSA	J	AH	Back Board [For UK]
203	GITAS0035AWSA	J	AG	Side Panel,Left
204	GITAS0036AWSA	J	AG	Side Panel,Right
205	GCAB-1046AWSA	J	AL	Top Cabinet
206	GCOVA1148AWSA	J	AD	Cover,CD Tray
208	92LCSPR1596A	J	AA	Spring,Cassette Holder Up
209	JBTN-0106AWSA	J	AC	Button,Record [Tape 1]
210	JBTN-0104AWSA	J	AC	Button,Play [Tape 1]
211	JBTN-0107AWSA	J	AC	Button,Rew [Tape 1]
212	JBTN-0103AWSA	J	AC	Button,FF [Tape 1]
213	JBTN-0108AWSA	J	AC	Button,Stop [Tape 1]
214	JBTN-0105AWSA	J	AC	Button,Play [Tape 2]
215	LCHSM0054AWSA	J	AH	Main Chassis
216	PSLDM5001AWZZ	J	AC	Shield
217	JBTN-0109AWSA	J	AC	Button,Stop [Tape 2]
218	PRDAR0080AWFW	J	AG	Heat Sink
219	LHLDZ3007AWFW	J	AB	Holder,LCD
220	MSPRD0044AWFJ	J	AB	Spring,Lock Lever
221	MLEVP0067AWZZ	J	AC	Lever,Lock
222	NROLP0009AWZZ	J	AB	Roller
223	LCHSZ0010AWZZ	J	AM	Loading Chassis
224	MLEVP0070AWZZ	J	AB	Lever,Turntable Lock
225	MSPRC0020AWFJ	J	AB	Spring,Turntable Lock Lever
226	GCAB-1044AWSA	J	AM	CD Player Base
228	LHLDZ1139AWSA	J	AD	Support,Stabilizer
229	92LHOLD2037AS1	J	AK	Stabilizer Ass'y
229-1	———		—	Stabilizer (Not Replacement Item)
229-2	PMAGF0001AWZZ	J	AF	Magnet
229-3	92LSUPT1749D	J	AA	Support,Magnet
230	NTNT-0018AWSA	J	AK	Turntable
231	LHLDZ1140AWZZ	J	AB	Guide
232	MLEVP0068AWZZ	J	AB	Lever,Change

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
233	MSPRC0024AWFW	J	AB	Spring,Solenoid
234	LCHSZ0011AWZZ	J	AG	Chassis,CD Mechanism
235	NGERK0004AWZZ	J	AB	Gear,Bevel
236	MSPRC0021AWFJ	J	AB	Spring,Worm Wheel
237	NGERW0006AWZZ	J	AC	Gear,Worm Wheel
238	NPLYD0001AWZZ	J	AB	Pulley
239	NGERK0005AWZZ	J	AB	Gear,Loading
240	MLEVP0066AWZZ	J	AE	Lever,Shift
241	NGERH0064AWZZ	J	AD	Gear,Cam
242	NGERK0003AWZZ	J	AC	Gear,Drive
243	LHLDZ1141AWZZ	J	AB	Support,Pitch
244	NGERH0065AWZZ	J	AB	Gear,Turntable
245	NBLTK0029AWZZ	J	AB	Belt,Drive
246	92LN-BAND1318A	J	AA	Nylon Band,80mm
247	RPLU-0002AWZZ	J	AH	Solenoid Ass'y
248	92LMEC2448CTS1	J	AK	Cassette Holder Ass'y,Tape 1
248-1	———		—	Cassette Holder,Tape 1 (Not Replacement Item)
248-2	HDECQ0206AWSA	J	AD	Panel,Cassette,Tape 1
249	92LMEC2448CTS2	J	AK	Cassette Holder Ass'y,Tape 2
249-1	———		—	Cassette Holder,Tape 2 (Not Replacement Item)
249-2	HDECQ0207AWSA	J	AD	Panel,Cassette,Tape 2
250	MLIFP0001AWSA	J	AG	Damper
251	HDECQ0208AWSA	J	AD	Knob,Decoration Panel
252	JKNBZ0378AWSA	J	AE	Knob,Function
253	JKNBZ0380AWSA	J	AD	Knob,Volume
254	JKNBZ0381AWSA	J	AC	Knob,X-BASS
255	JKNBZ0406AWSA	J	AE	Knob,Power
256	92LRDAT-1468B	J	AE	Heat Sink
257	RCORF0014AWZZ	J	AD	Core
⚠258	QSFHD0001AWZZ	J	AB	Fuse Holder
259	TLABS0076AWZZ	J	AB	Label,BEAB [For UK Only]
260	92LCAUT1706A1	J	AC	Label,Class 3A Laser
261	92LCAUT1706B	J	AA	Label,Laser
262	HDECP0040AWSA	J	AD	Sheet,LCD Color
263	PSLDM3015AWFW	J	AD	Shield Plate,Deck
264	PSLDM3033AWZZ	J	AD	Shield Plate,Tuner
265	PCUSG0027AWZZ	J	AB	Worm Wheel Cushion
266	PCUSG0022AWZZ	J	AB	Cushion
601	XEBSD30P10000	J	AA	Screw,ø3×10mm
602	XESSD30P10000	J	AA	Screw,ø3×10mm
603	XEBSD30P12000	J	AA	Screw,ø3×12mm
604	XJBSF30P08000	J	AA	Screw,ø3×8mm
605	XEBSF30P12000	J	AA	Screw,ø3×12mm
606	LX-JZ0003AWFF	J	AA	Screw,ø3×12mm
607	LX-JZ0002AWFD	J	AA	Screw,ø3×10mm
608	LX-EZ0005AWFD	J	AA	Screw,Special
609	XJSSF30P10000	J	AA	Screw,ø3×10mm
610	XBPSD26P05JSO	J	AB	Screw,ø2.6×5mm
611	LX-TZ0019AFZZ	J	AB	Screw,Special
612	XEBSD26P12000	J	AA	Screw,ø2.6×12mm
613	XJBSF30P10000	J	AA	Screw,ø3×10mm
614	XJBSD30P10000	J	AA	Screw,ø3×10mm

ACCESSORIES/PACKING PARTS

1	SPAKP0013AWZZ1	J	AC	Polyethylene Bag,Unit
2	SPAKA0135AWZZ1	J	AC	Packing Add.,Left/Right
3	SPAKC0539AWZZ	J	AR	Packing Case
4	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories
5	QANTL0005AWZZ	J	AG	AM Loop Antenna
6	TINSE0169AWZZ	J	AF	Operation Manual [For UK]
6	TINSZ0254AWZZ	J	AS	Operation Manual [Except for UK]
7	92LF-ANT1535A	J	AF	FM Antenna
8	92LBAG1770A	J	AB	Polyethylene Bag,AC Plug
9	92LCARD1751A	J	AB	Registration Card
⚠10	QACCB0004AW00	J	BB	AC Power Supply Cord [For UK]
⚠10	QACCE0007AW00	J	AR	AC Power Supply Cord [Except for UK]
11	RRMCG0103AWSA	J	AR	Remote Control
11-1	92LLID1782A	J	AQ	Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~3	92LPWB2450MANS	J	—	Main/Display/Spacer (Combined Ass'y) [For UK Only]
PWB-B	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only) [For UK Only]
PWB-C	QPWBF0341AWZZ	J	AB	Motor (PWB Only) [For UK Only]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CP-C402

SPEAKER BOX PARTS

701	92L121-0099	J	AP	Net Frame Ass'y
702	92L051-0034	J	AN	Speaker Box Ass'y
703	92L316-0026	J	AG	Duct Panel
704	92L394-0026	J	AB	Port Cushion
705	92L291-0034	J	AF	Speaker Cord
706	92L351-0170	J	AC	Label,Specifications
707	92L372-0006	J	AD	Screw,ø4×12mm
SP1,2	VSP0010PBT18A	J	AQ	Woofer

ACCESSORIES/PACKING PARTS

1	92L411-0019	J	AB	Polyethylene Bag,Speaker
2	92L412-0072	J	AN	Packing Add.,Speaker (Top/Bottom)
3	92L353-0056	J	AG	Feature Label

CD-C401H

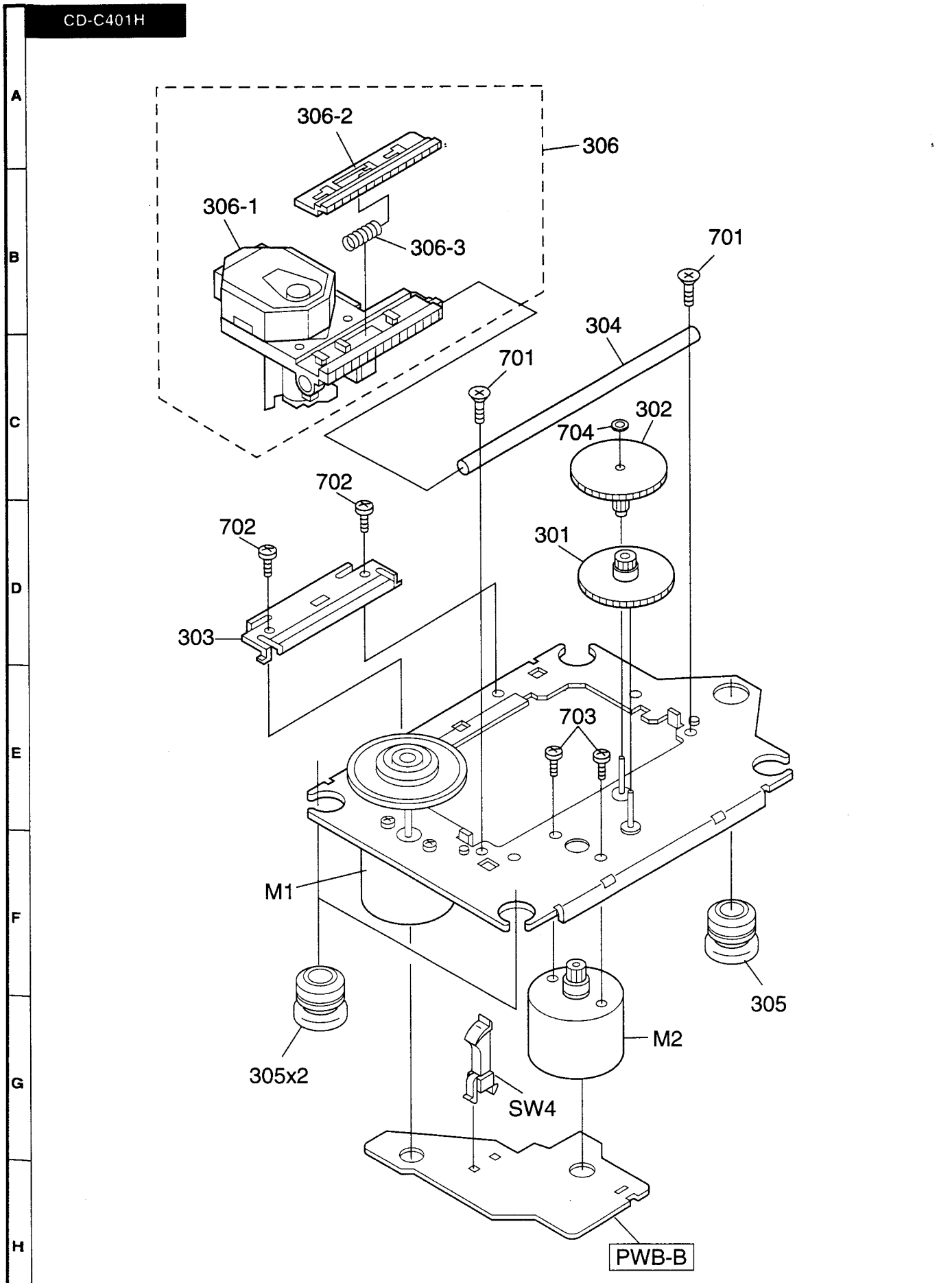


Figure 6 CD MECHANISM EXPLODED VIEW

CD-C401H

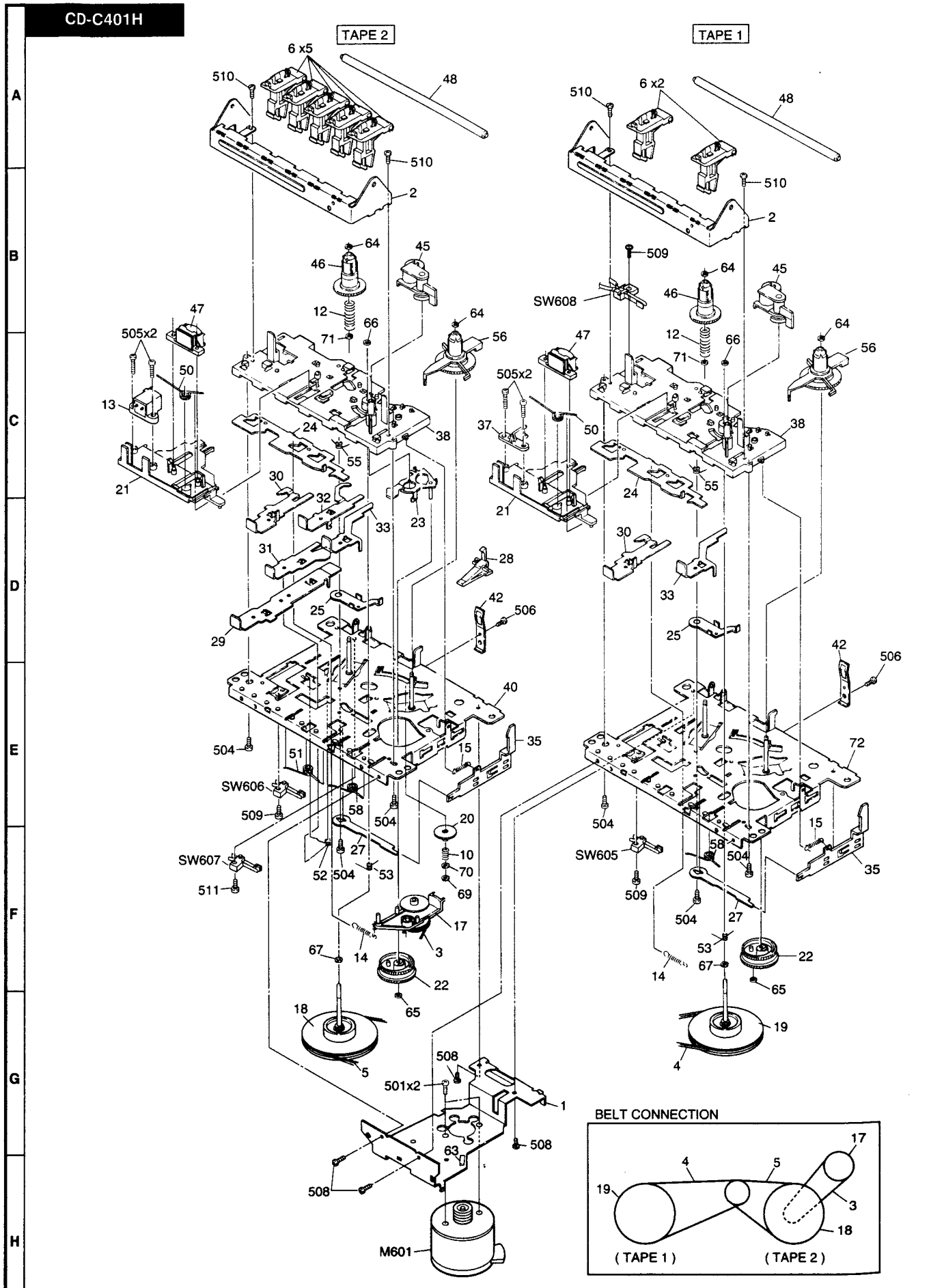


Figure 7 TAPE MECHANISM EXPLODED VIEW

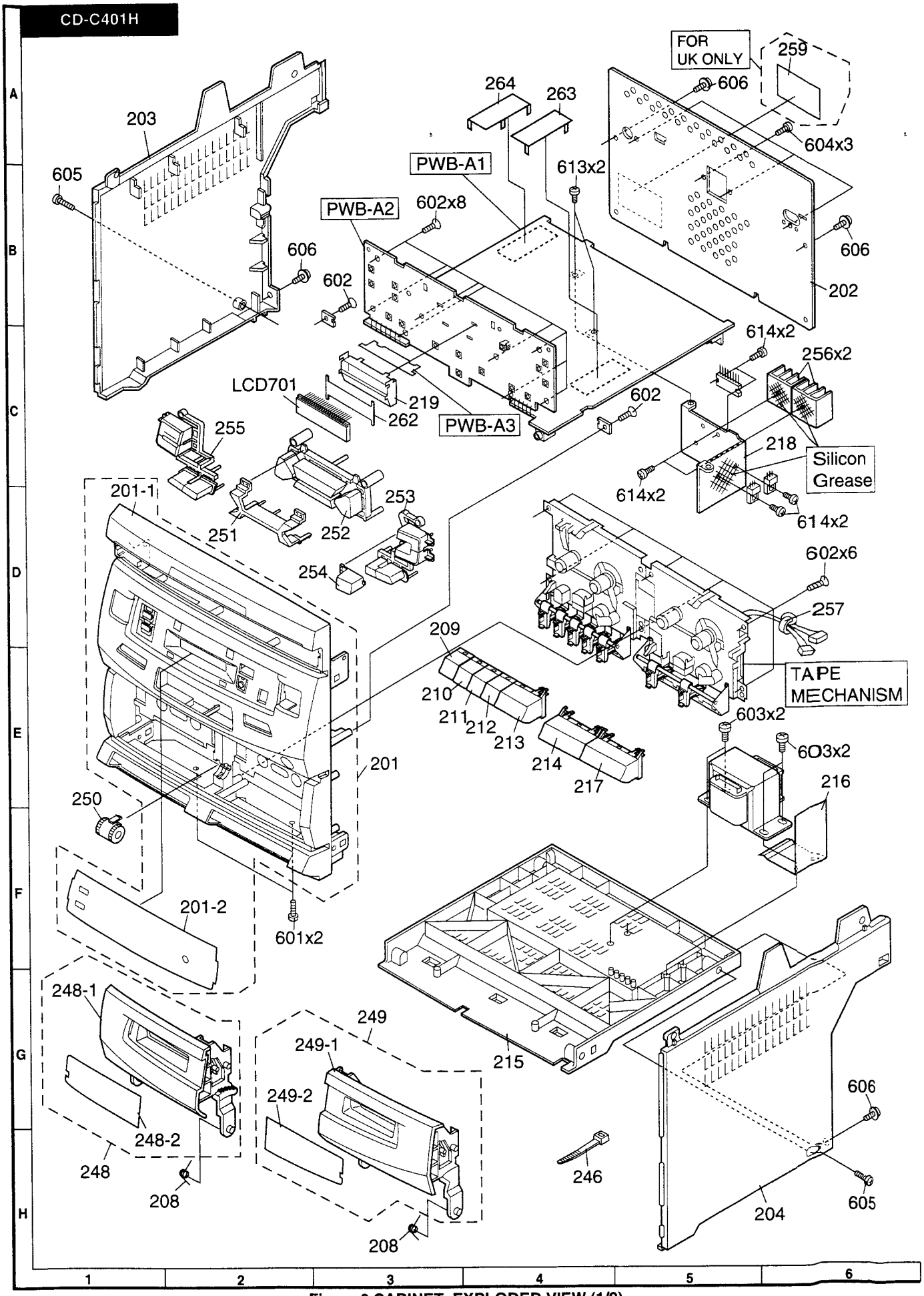


Figure 8 CABINET EXPLODED VIEW (1/2)

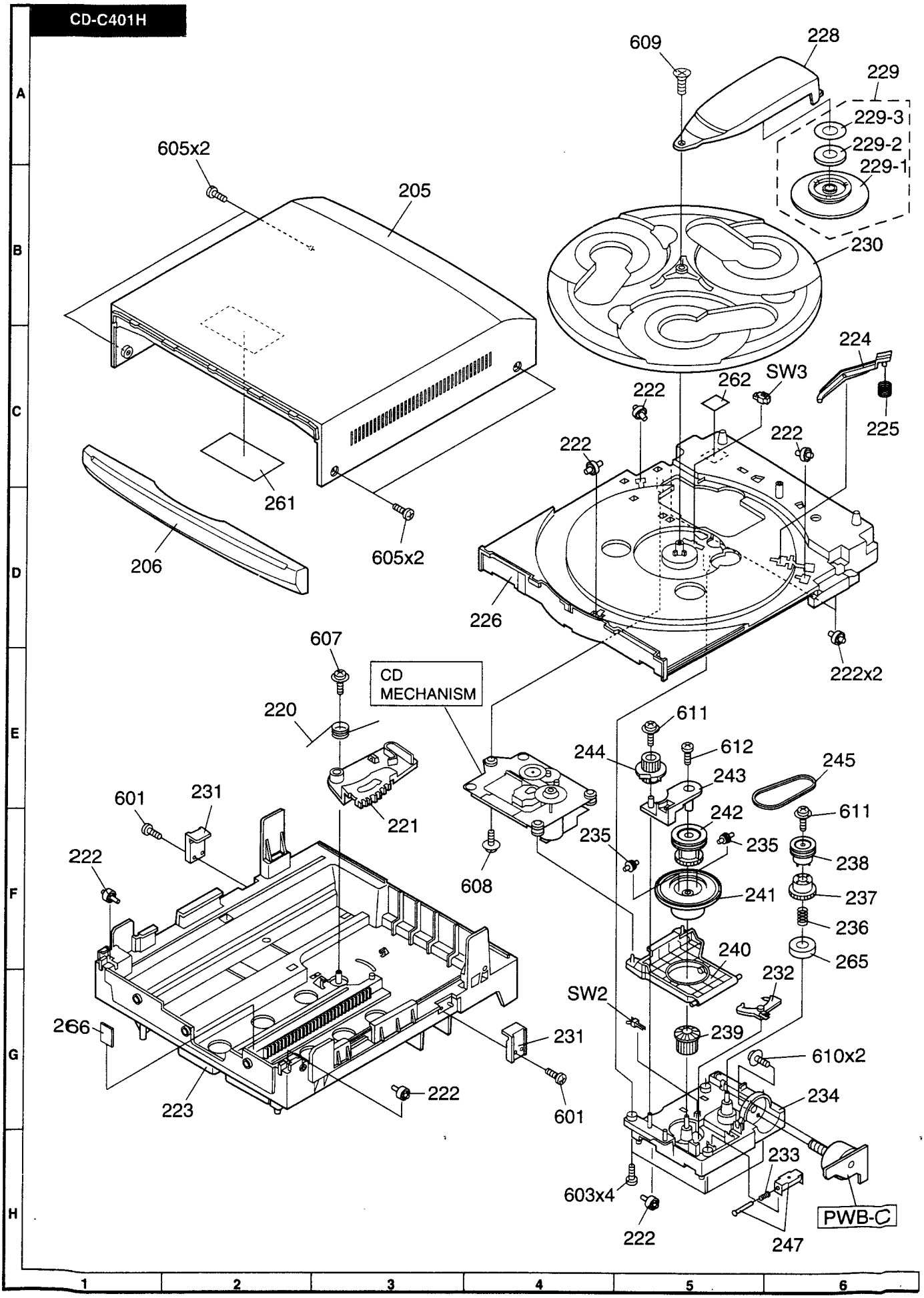


Figure 9 CABINET EXPLODED VIEW (2/2)

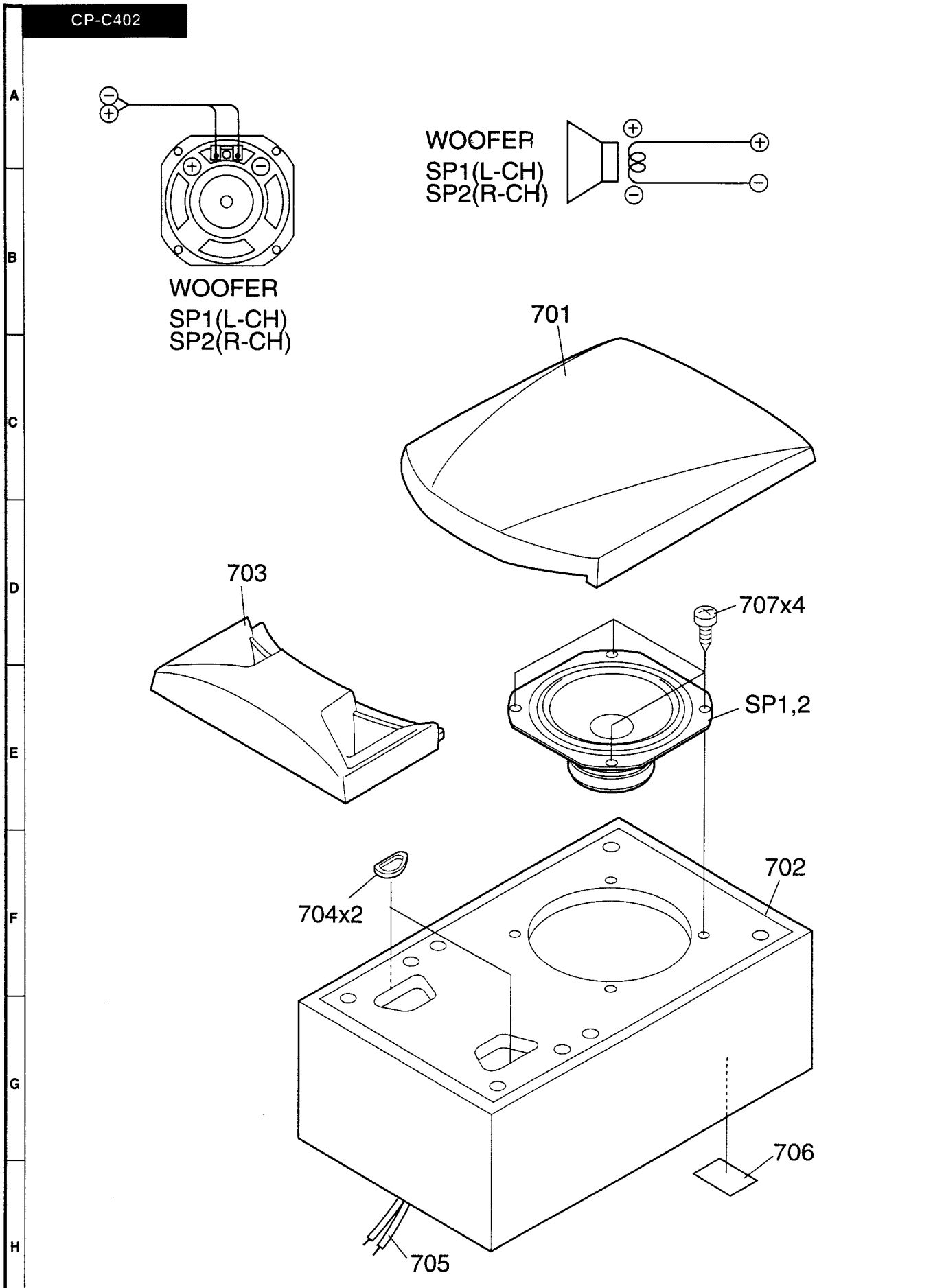


Figure 10 SPEAKER EXPLODED VIEW

PACKING METHOD (FOR UK ONLY)

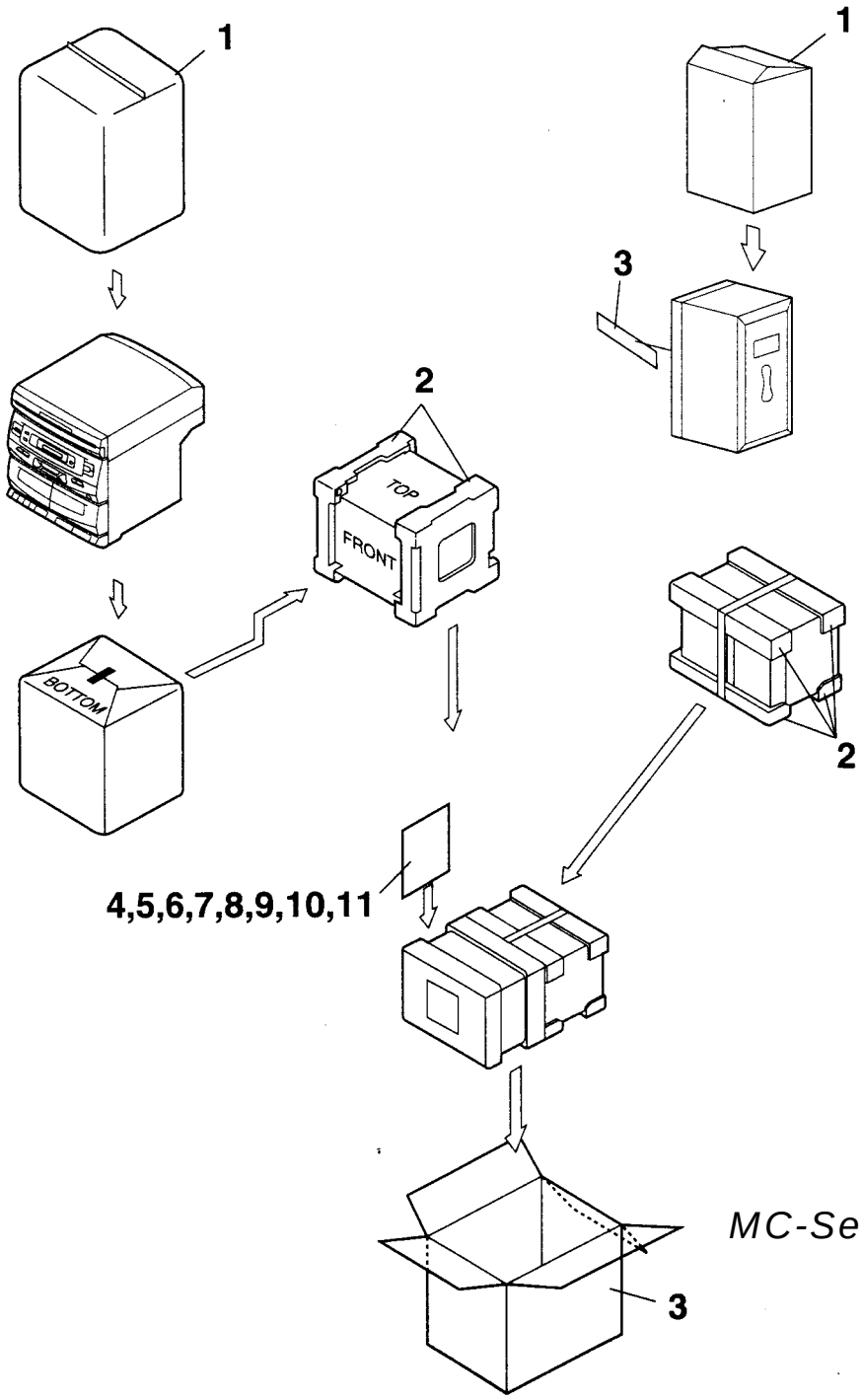
Setting position of switches and knobs	
Tape Mechanism	STOP

CP-C401H

1. Polyethylene Bag, Unit	SPAKP0013AWZZ1
2. Packing Add., Left/Right	SPAKA0135AWZZ1
3. Packing Case	SPAKC0539AWZZ
4. Polyethylene Bag, Accessories	92LBAG1460C1
5. AM Loop Antenna	QANTL0005AWZZ
6. Operation Manual	TiNSE0169AWZZ
7. FM Antenna	92LF-ANT1535A
8. Polyethylene Bag, AC Plug Adaptor	92LBAG1770A
9. Registration Card	92LCARD1751A
10. AC Power Supply Cord	QACCB0004AW00
11. Remote Control	RRMCG0103AWSA

CP-C402

1. Polyethylene Bag, Speaker	92L411-0019
2. Packing Add., Speaker (Top/Bottom)	92L412-0072
3. Feature Label	92L353-0056



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